Math 8 HW Sheets

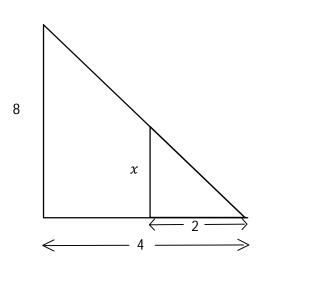


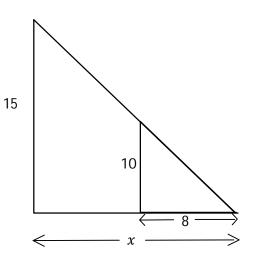
Knack Academics

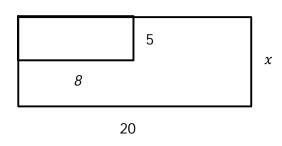
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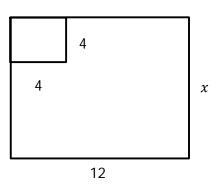
Solve for the x. $ \frac{x}{2} = \frac{7}{6} $ $ \frac{3}{4} = \frac{x}{8} $ $ \frac{3}{5} = \frac{x}{20} $ $ \frac{2}{3} = \frac{x}{21} $ $ \frac{1}{3} = \frac{x}{18} $ $ \frac{x}{2} = \frac{3}{6} $ $ \frac{x}{4} = \frac{5}{20} $ $ \frac{x}{3} = \frac{4}{6} $ $ \frac{x}{6} = \frac{18}{36} $ $ \frac{x}{7} = \frac{14}{49} $	
5	
5	
$\frac{3}{x} = \frac{6}{26} \qquad \frac{4}{x} = \frac{16}{20} \qquad \frac{7}{x} = \frac{14}{24} \qquad \frac{3}{x} = \frac{21}{35} \qquad \frac{5}{x} = \frac{25}{30}$	
$\frac{3}{4} = \frac{9}{x} \qquad \frac{3}{7} = \frac{12}{x} \qquad \frac{7}{9} = \frac{14}{x} \qquad \frac{4}{5} = \frac{32}{x} \qquad \frac{6}{7} = \frac{54}{x}$	
Solve for the x.	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
$\frac{x}{1} = \frac{3}{6}$ $\frac{x}{4} = \frac{5}{18}$ $\frac{x}{3} = \frac{4}{8}$ $\frac{x}{6} = \frac{18}{20}$ $\frac{x}{7} = \frac{14}{50}$	
$\frac{3}{x} = \frac{20}{26} \qquad \frac{4}{x} = \frac{15}{20} \qquad \frac{7}{x} = \frac{4}{24} \qquad \frac{3}{x} = \frac{2}{35} \qquad \frac{5}{x} = \frac{32}{30}$	
$\frac{2}{4} = \frac{9}{x} \qquad \frac{3}{7} = \frac{13}{x} \qquad \frac{7}{9} = \frac{20}{x} \qquad \frac{4}{5} = \frac{35}{x} \qquad \frac{6}{7} = \frac{50}{x}$	

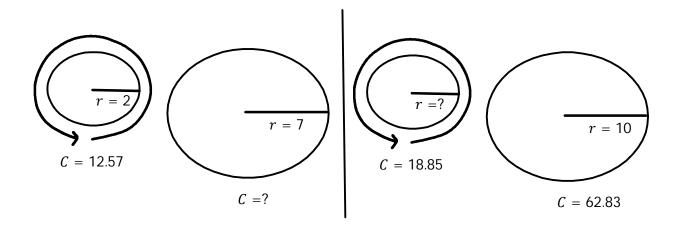
M8 - 2.2 - Similar Shapes HW





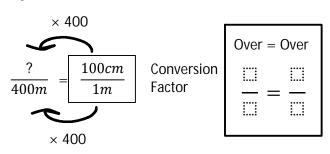






M8 - 2.3 - Conversions Notes/HW

How many Centimeters around a 400 Meter track?



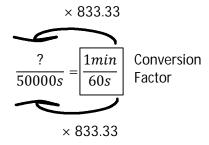
 $100cm \times 400 = 40000cm$

There are 40000 cm around a 400 m track.

1cm = 10mm 1m = 100cm 1km = 1000m 1in = 2.54cm 1m = 3.3ft 1ft = 30.48cm 1yd = 0.9144m 1min = 60s 1hr = 60min 1mi = 1.609 km

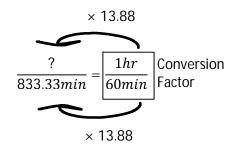
Two Steps

How many Hours in 50000 Seconds?



 $1min \times 833.33 = 833.33min$

There are 833.33 min in 50000s.



 $1hr \times 13.88 = 13.88hr$ There are 13.88 hrs in 50,000 s

How many meters in 2400 km?

How many centimetres in 7.6 m?

How many days in 500 hours?

How many kilometres in 800 m?

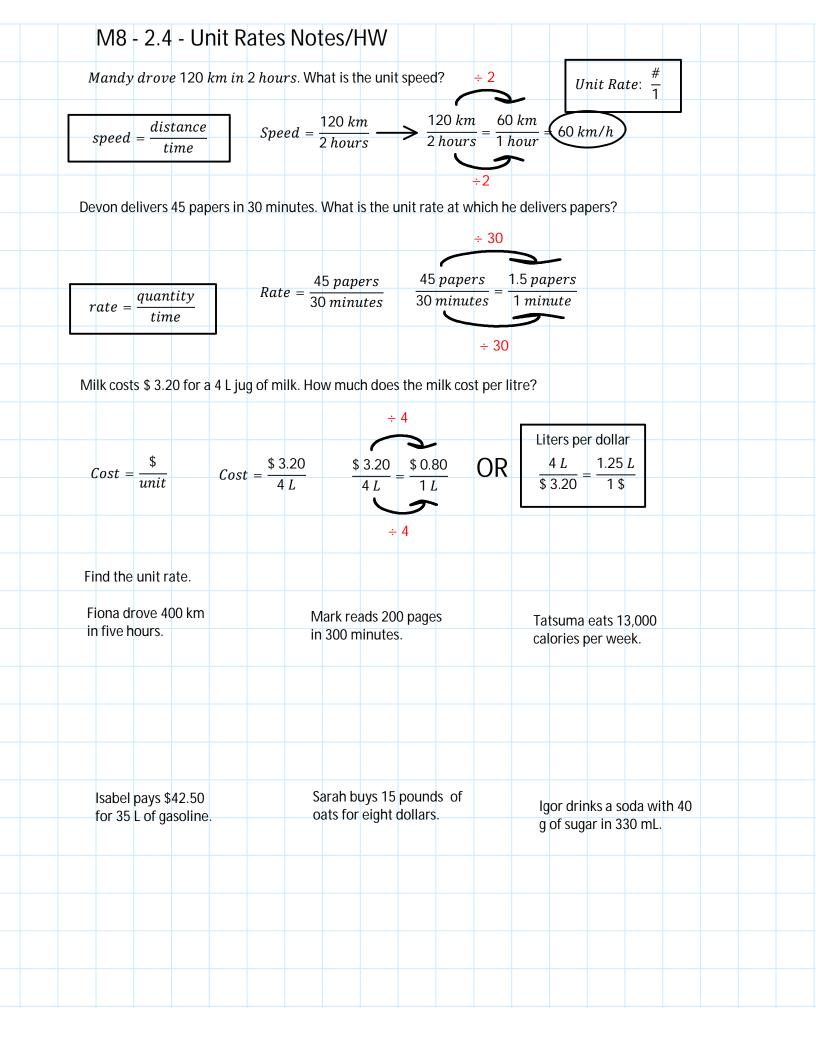
How many seconds in 400 minutes?

How many inches in 8 cm?

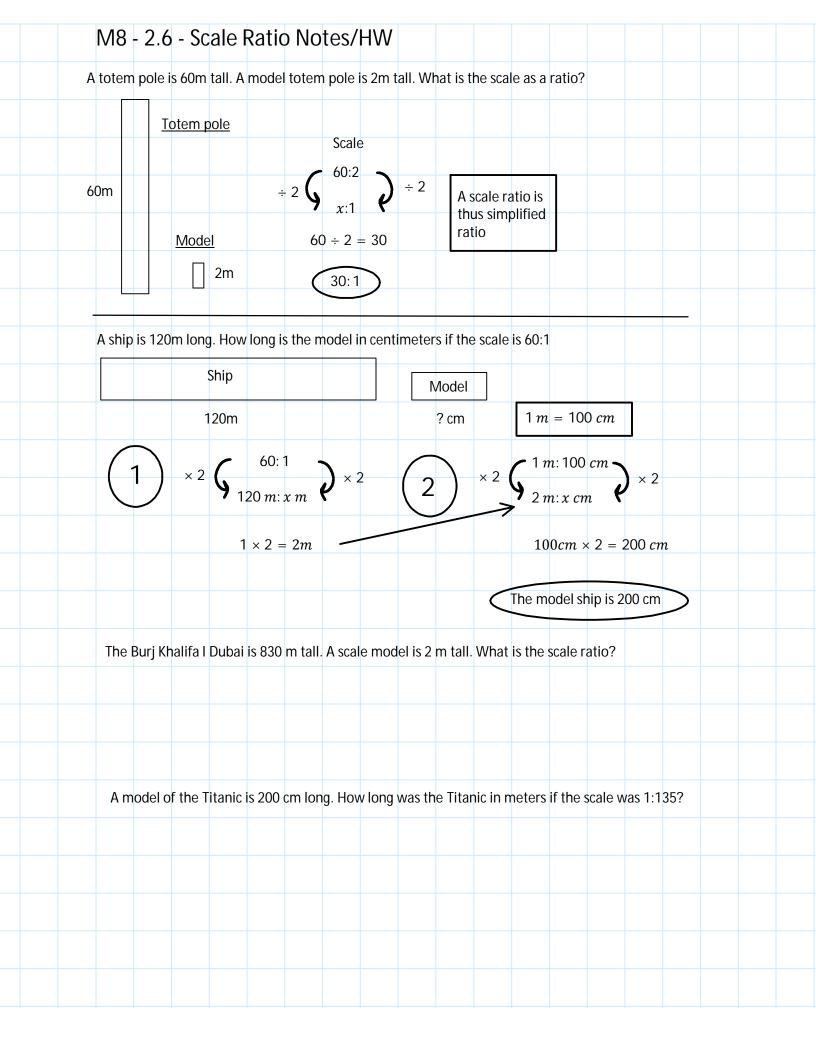
How many centimetres in 3.5 km?

How many days in 10,000 hours?

How many inches in 3 m?



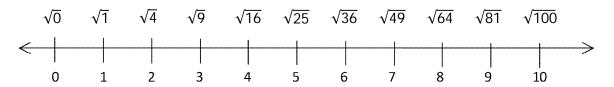
	M8 - 2.	.5 - E	qual R	atic	s HW								
	Simplify	the foll	lowing rai	tios i	e. #:1								
	3:9		6 :	8 :		12 :	20		14 : 21		6:1	8	
÷ 3	3:9	÷ 3							1112				
	, ,												
	3:6		5:2	20		4:	6		18 : 36		14:	10	
									10 - 00		14.	7	
	. 24		1/	20		14 :	24		0.1	_			
	6 : 26		16 :	20		14	24		21 : 3	5	25 :	30	
	9 : 12		12 : 2	28		14:	18		32 : 40		54:	63	
	Solve the f	ollowin	g ratios.										
	10	D: 5			7: 98			1:15					
		x: 3			x: 400			<i>x</i> : 225		2: 3 x:8			
): 9 3: <i>x</i>				2: <i>x</i> 4: 7			x: 5				
						1. /			3: 7				



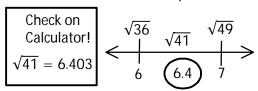
M8 -	- 2.7	- Ra	atios	Mai	rbles	s HW	/										
There a	are 13	boys a	and 15	girls ir	ı a clas	sroom	. If the	schoo	ol has t	he san	ne rati	o of bo	oys to o	girls ho	w mar	ny	
girls ar													,			,	
Bruce days d						ow mai	ny	h	ngelina omewo	rk eve	ry nig	ht. Ho	w man	y hours			
									omewo ours do					k? Hov	v many	y	
								110	Jul 3 uc	703 3H	uo ce	ion you					
Thoro	oro 20)() + o + o	ا ماما	o la o	tov bir	of on	. ,		Huma	ne elo	on oigh	at hour	s each	night	on		
dinosa	aurs ar	nd cars	. If the	re are	doubl	of on e the r aurs ar	numbe		averag	ge. If a	huma	n lives	for 80 they sl	years	how		
or and	00001	ao da	011011	many	dirios	a Gris Gri	o tiloi v		J				,				
Tecto	onic pl	ates m	nove 2	centin	netres	per ye	ar on a	averag	e. How	many	years	did th	e Pacif	ic ocea	ın of w	vidth	
abou	ıt 17,7	00 km	take to	o form	from	Pangea	a?										

M8 - 3.1 - Estimating Square/Roots HW

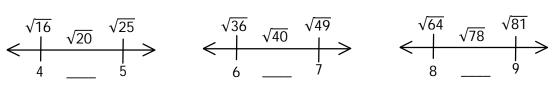
Number Line!

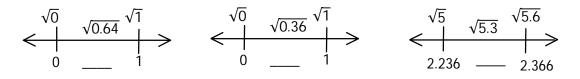


Estimate the square root of 41.

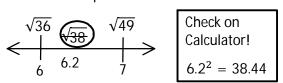


Estimate the square root of the given number to one decimal place.

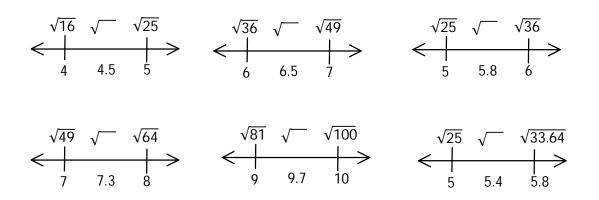




Estimate the square of 6.2.



Estimate the square of the given number to two decimal places.



M8 - 3.1 - Estimating Square/Square Roots HW

Estimate the square root.

$$\sqrt{50} =$$

$$\sqrt{40} =$$

$$\sqrt{81} =$$

$$\sqrt{35} =$$

$$\sqrt{64} =$$

$$\sqrt{77} =$$

$$\sqrt{20} =$$

$$\sqrt{0.81} =$$

Estimate the following squares. (Whose square root is the number?)

$$3.1^2 =$$

$$3.5^2 =$$

$$5.6^2 =$$

$$8.4^2 =$$

$$7.6^2 =$$

$$15^2 =$$

$$26^2 =$$

$$2.2^2 =$$

Colve ···e!	ima faatari-atiar			
Solve using pr	ime factorization.			
$\sqrt{9} =$		$\sqrt{25} =$		$\sqrt{400}$
$\sqrt{64} =$		$\sqrt{169} =$		$\sqrt{-4} =$
		V 107 -		
³ √8 =		$\sqrt[3]{64} =$		$\sqrt[3]{-64} =$
$ \sqrt{1} = \sqrt{81} = \sqrt{100} = \sqrt{49} = \sqrt{100} $	$\sqrt{144} =$		$ \sqrt[3]{512} = \sqrt[3]{27} = \sqrt[3]{-1} = \sqrt[3]{1} = $	$\sqrt[3]{343} = \sqrt[3]{216} = \sqrt[3]{2}$
$\sqrt{81} =$	$ \sqrt{144} = $ $ \sqrt{121} = $		$\sqrt[3]{27} =$	³ √216 =
√100 =	$\sqrt{-36} = \sqrt{16} = \sqrt{16} = \sqrt{16}$		√-1 =	$\sqrt[3]{125} = \sqrt[3]{729} = \sqrt[3]{125}$
V49 =	√16 =		V T =	₹/29 =

M8 - 3.2 - Solving Roots Calculator HW

Solve using your calculator.

$$\sqrt{25} =$$

$$\sqrt{49} =$$

$$\sqrt{64} =$$

$$\sqrt{16} =$$

$$\sqrt{100} =$$

$$\sqrt{9} =$$

$$\sqrt{121} =$$

$$\sqrt{1} =$$

$$\sqrt{36} =$$

$$\sqrt{400} =$$

$$\sqrt{4} =$$

$$\sqrt{196} =$$

$$\sqrt{144} =$$

$$\sqrt{256} =$$

$$\sqrt{81} =$$

$$\sqrt{225} =$$

$$\sqrt{324} =$$

$$\sqrt{169} =$$

$$\sqrt{784} =$$

$$\sqrt{484} =$$

$$\sqrt{676} =$$

$$\sqrt{576} =$$

$$\sqrt{729} =$$

$$\sqrt{529} =$$

$$\sqrt{361} =$$

$$\sqrt{289} =$$

$$\sqrt{625} =$$

$$\sqrt{441} =$$

Solve using your calculator.

$$\sqrt[3]{8} =$$

$$\sqrt[3]{27} =$$

$$\sqrt[3]{64} =$$

$$\sqrt[3]{216} =$$

$$\sqrt[3]{1} =$$

$$\sqrt[3]{343} =$$

$$\sqrt[3]{125} =$$

$$\sqrt[3]{512} =$$

$$\sqrt[3]{8000} =$$

$$\sqrt[3]{2744} =$$

$$\sqrt[3]{13824} =$$

$$\sqrt[3]{10648} =$$

$$\sqrt[3]{12167} =$$

$$\sqrt[3]{6859} =$$

$$\sqrt[3]{9261} =$$

$$\sqrt[3]{4096} =$$

$$\sqrt[3]{3375} =$$

$$\sqrt[3]{5832} =$$

$$\sqrt[3]{21952} =$$

$$\sqrt[3]{17576} =$$

$$\sqrt[3]{2197} =$$

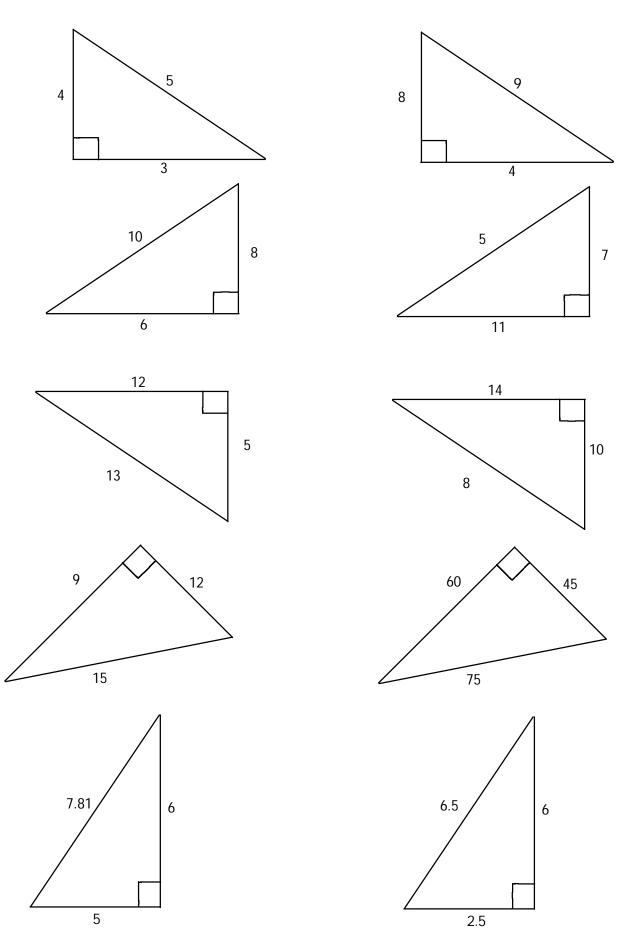
$$\sqrt[3]{4913} =$$

$$\sqrt[3]{15625} =$$

$$\sqrt[3]{1000} =$$

M8 - 3.3 - Identifying a, b and c HW

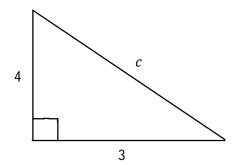
Label the triangle a, b, c, appropriately.

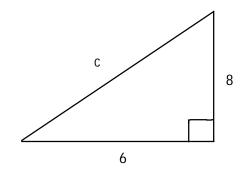


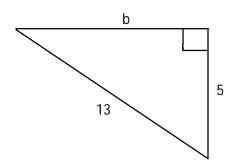
M8 - 3.3 - Pythagoras' Theorem HW

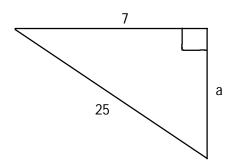
Using Pythagoras' Theorem, find the missing side.

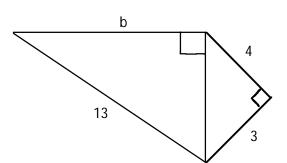
Pythagoras' Theorem: $a^2 + b^2 = c^2$







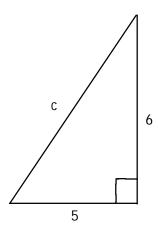


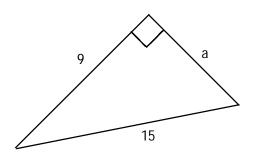


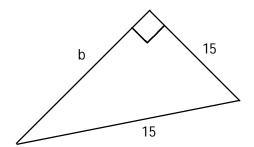
M8 - 3.3 - Pythagoras' Theorem (Calc) HW

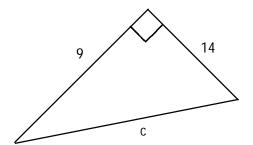
Using Pythagoras' Theorem, find the missing side.

Pythagoras' Theorem: $a^2 + b^2 = c^2$









M8 - 4.1 - Fractions->Decimals HW

Convert from fractions to decimals.

$$\frac{1}{10} = 0.1$$

$$\frac{1}{2} = \frac{5}{10} = 0.5$$

$$\frac{1}{5} =$$

$$\frac{1}{4}$$
 =

$$\frac{2}{5}$$
 =

$$\frac{3}{20} =$$

$$\frac{3}{5} =$$

$$\frac{4}{5} =$$

$$\frac{3}{4}$$
 =

$$\frac{1}{20} =$$

$$\frac{1}{25} =$$

$$\frac{2}{25} =$$

$$\frac{3}{25} =$$

$$\frac{3}{50} =$$

$$\frac{7}{50} =$$

$$\frac{3}{100} =$$

$$\frac{3}{1000} =$$

$$\frac{1}{500} =$$

$$\frac{303}{1000} =$$

$$\frac{31}{100} =$$

Convert from fractions to repeating decimals.

$$\frac{1}{9}=0.\,\overline{1}$$

$$\frac{2}{3} =$$

$$\frac{1}{3} =$$

$$\frac{1}{6} =$$

$$\frac{4}{9} =$$

$$\frac{5}{6} =$$

$$\frac{2}{9}$$
 =

$$\frac{7}{9} =$$

$$\frac{5}{9} =$$

$$\frac{8}{9} =$$

Convert from mixed fractions to decimals.

$$1\frac{1}{3} = 1 + 0.\overline{3} = 1.\overline{3}$$
 $2\frac{1}{2} =$

$$2\frac{1}{2} =$$

$$5\frac{1}{5} =$$

$$3\frac{1}{4} =$$

$$4\frac{3}{4} =$$

$$3\frac{2}{5} =$$

$$5\frac{2}{3} =$$

$$3\frac{1}{9} =$$

$$4\frac{2}{9} =$$

Convert from an improper fraction to a mixed fraction, then to a decimal.

$$\frac{11}{5} = 2\frac{1}{5} = 2.2$$
 $\frac{3}{2} =$

$$\frac{3}{2}$$
 =

$$\frac{5}{2} =$$

$$\frac{7}{2}$$
 =

$$\frac{9}{2} =$$

$$\frac{4}{3} =$$

$$\frac{5}{3} =$$

$$\frac{7}{3} =$$

$$\frac{8}{3} =$$

$$\frac{5}{4}$$
 =

$$\frac{7}{6} =$$

$$\frac{7}{4} =$$

$$\frac{9}{4} =$$

$$\frac{8}{5}$$
 =

$$\frac{7}{5}$$
 =

$$\frac{10}{9} =$$

$$\frac{9}{5} =$$

$$\frac{6}{5} =$$

M8 - 4.1 - Fractions->Decimals HW Convert from fractions to decimals using long division or your calculator, to three decimal places. $\frac{1}{6} = 0.1\overline{6}$ $\frac{1}{8} = 0.125$ $\frac{5}{6}$ = $\frac{3}{11} =$ 1 11 = $\frac{3}{8} =$

M8 - 4.1	- Decimals-	>Fractions H	VV		
Convert from o	decimals to fractions				
1	5 1	0.2 =	0.25 =	0.4 =	
$0.1 = \frac{1}{10}$	$0.5 = \frac{5}{10} = \frac{1}{2}$	0.2 -	0.20	0.1	
0.15 =	0.6 =	0.8 =	0.75 =	0.05 =	
0.04 =	0.08 =	0.12 =	0.06 =	0.14 =	
0.03 =	0.003 =	0.002 =	0.303 =	0.31 =	
Comment from	vom o dim o do simo do 1	fraction -			
$0.\overline{1} = \frac{1}{9}$	repeating decimals to $0.\overline{6} =$	$0.\overline{3} =$	0.16 =	0. 4 =	
0.83 =	0. 2 =	0. 7 =	0. 5 =	0.8 =	
	decimals to mixed fra				
$1.\bar{3} = 1\frac{1}{3}$	2.5 =	5.2 =	3.25 =	3.4 =	
5. 6 =	3. 1 =	4. 2 =	4.75 =		
Convert from a	a decimal to a mixed	fraction, then to an imp	proper fraction.		
2.2 =	1.5 =	2.5 =	3.5 =	4.5 =	
1.3 =	1.6 =	2. 3 =	2. 6 =	1.25 =	
1.16 =	1.75 =	2.25 =	1.6 =	1.2 =	
	·				
1.4 =	1.1 =	1.8 =			

IVI8 - 4.	1 - Decimals-	>% HVV		
	n decimals to percentag			
0.1 =	0.5 =	0.2 =	0.25 =	0.4 =
0.15 =	0.6 =	0.8 =	0.75 =	0.05 =
0.04 =	0.08 =	0.12 =	0.06 =	0.14 =
0.03 =	0.003 =	0.002 =	0.303 =	0.31 =
0.200 =	0.123 =	0.452 =	0.195 =	0.322 =
0.400 =	0.05 =	0.02 =	0.005 =	0.109 =
0.370 =	0.823 =	0.764 =	0.631 =	0.540 =
Convert from	n repeating decimals to	repeating percentage	es.	
0. 1 =	0. 6 =	0.3 =	0.16 =	0. 4 =
0.83 =	0. 2 =	0.7 =	0.5 =	0. 8 =
5. 6 =	3. 1 =	4. 2 =	2. 6 =	2. 3 =
1. 6 =	1.16 =	1.3 =	1.1 =	1. 3 =
Convert from deci	mals to percentages.			
3.4 =	2.5 =	5.2 =	3.25 =	4.75 =
2.2 =	1.5 =	2.5 =	3.5 =	4.5 =
1.75 =	2.25 =	1.6 =	1.25 =	1.2 =
1.4 =	1.8 =	4.5 =	10 =	10.4 =
2.0 =	3 =	17 =	100 =	350 =

M8 - 4.1 - 9	%->Decimals HW	1		
	centage to a decimal.			
10% = 0.1	60% = 0.6	20% =	80% =	
50% =	30% =	70% =	40% =	
90% =	25% =	75% =	89% =	
15% =	32% =	62% =	45% =	
11. 1% =	77. 7% =	33. 3% =	88. 8% =	
55. 5% =	22. 2% =	66. 6% =	44. 4%	
150% =	120% =	125% =	225% =	
1000% =	570% =	1200% =	1250% =	
100070 =	37070 -	120070 —	123070 =	
1% =	2% =	5% =	0.3% =	
0.5% =	0.6% =	9% =	7% =	
1				
$14\frac{1}{2}\% =$	128.7% =	25.2% =	130.4% =	

M8 - 4.1	- Fractions->	% HW			
Convert from	fractions to percentages	S			
$\frac{4}{5} = \frac{80}{100} = 0.8$	$3 = 80\%$ $\frac{1}{5}$	$=\frac{2}{10}=0.2=20\%$	\frac{2}{25} =		
$\frac{3}{20} =$	3 10	100 =	$\frac{1}{2}$ =		
1	3 5		3 25		
25 =					
1 10 =	10	000 =	$\frac{1}{500} =$		
$\frac{2}{5} =$	10	3000 =	$\frac{3}{50} =$		
7 =	$\frac{1}{4}$	=	$\frac{3}{4} =$		
1 20	3	300 =			
	fractions to repeating p				
$\frac{5}{9} =$	2	$\frac{1}{3}$	1	$\frac{2}{9} =$	
9=	3=	3	6 =	9 =	
$\frac{5}{6} =$	$\frac{7}{9} =$	1 =	$\frac{4}{9} =$	$\frac{8}{9} =$	
	mixed fractions to perce		,		
$4\frac{3}{4} =$	$2\frac{1}{2} =$	$5\frac{2}{3} =$	$3\frac{1}{4} =$	3 \frac{1}{9} =	
1	2	2	1		
$1\frac{1}{3} =$	$3\frac{2}{5} =$	$4\frac{2}{9} =$	$5\frac{1}{5} =$		
		a mixed fraction, then to			
$\frac{9}{4} =$	$\frac{5}{2} =$	$\frac{9}{5}$ =	$\frac{7}{2}$ =	$\frac{6}{5}$ =	
<u></u>		_			
$\frac{4}{3} =$	$\frac{5}{3} =$	$\frac{7}{6}$ =	$\frac{8}{3}$ =	$\frac{7}{4}$ =	
5	3	7	11	9	
$\frac{5}{4} =$	$\frac{3}{2} =$	$\frac{7}{5}$ =	11/5 =	$\frac{9}{2}$ =	
10	7	8			
10 9	$\frac{7}{3}$ =	8 =			

M8 - 4.1 - %->	Fractions HW			
Convert from a percenta	ge to a fraction and simplify.			
10% =	20% =	30% =	40% =	
50% =	60% =	70% =	80% =	
90% =	25% =	75% =	89% =	
15% =	32% =	62% =	45% =	
150% =	120% =	125% =	225% =	
1000% =	E700/	12000/	12500/	
1000% =	570% =	1200% =	1250% =	
Express as a fraction over				
11. 1% =	22. 2% =	33. 3% =	44. 4%	
_	66. 6% =	77. 7% =	88. 8% =	
55. 5% =	00.070 =	77.770 =	00.070 =	
Express as a fraction over				
16.66% =	33.33% =	50% =	66.66% =	
02 220/				
83.33% =				
Express as a fraction ove	er 3. 66.66% =			
33.33% =	00.0070			

Coloulata tha fallowing	"of" = ?% over 100 HW		
Calculate the following perc	emages.		
12 is what % of 100?	30 is what % of 50?	36 is what % of 108?	
15 is what % of 50?	46 is what % of 150?	30 is what % of 120?	
10 13 1111111 70 01 00.	io is what we i loo.	GG IS WHAT A GT 12G.	
20 is what % of 200?	70 is what % of 120?	45 is what % of 170?	
7 is what % of 40?	150 is what % of 30?	250 is what % of 80?	

Calculate the following.		
What is 20% of 200?	What is 15% of 800?	What is 2% of 300?
What is 0.50% of 10?	What is 100/ -5150	
What is 0.30% of 10.	What is 12% of 15?	What is 4% of 2?
What is 90% of 4000		
What is 8% of 400?	What is 250% of 500?	What is 1% of 100?
What is 2% of 200?	What is 1.2% of 500?	What is 7% of 7?

M8 - 4.2 - "is" % "?of	" HW		
40 is 40% of what number?	60 is 30% of what number?	30 is 60% of what number?	
40 is what percent of 200?	30 is what percent of 150?	64 is what percent of 400?	
150 is 20% of what number?	60% of what number is 48?	54% of what number is 5.4?	
70 is what percent of 350?	80 is what percent of 640?	344 is what percent of 860?	

What is the 12% tax on \$80 shoes? What is the total cost?	What is the 14% tax on \$100 pants?
what is the total cost?	What is the total cost?
What is a 25% discount on a \$200	What is the cost of a 25% discount on a
phone with no tax?	\$200 phone with 12% tax?
A 5% discount on a computer is \$190.	After a 12% tax, the price of a T.V is
How much was the original cost?	\$297. What was the original cost?
Nick ato 2 mars botdogs than Bill which	a was 200/ mars. How many total hatdags did they got?
Nick ate 3 more notdogs than bill which	n was 30% more. How many total hotdogs did they eat?

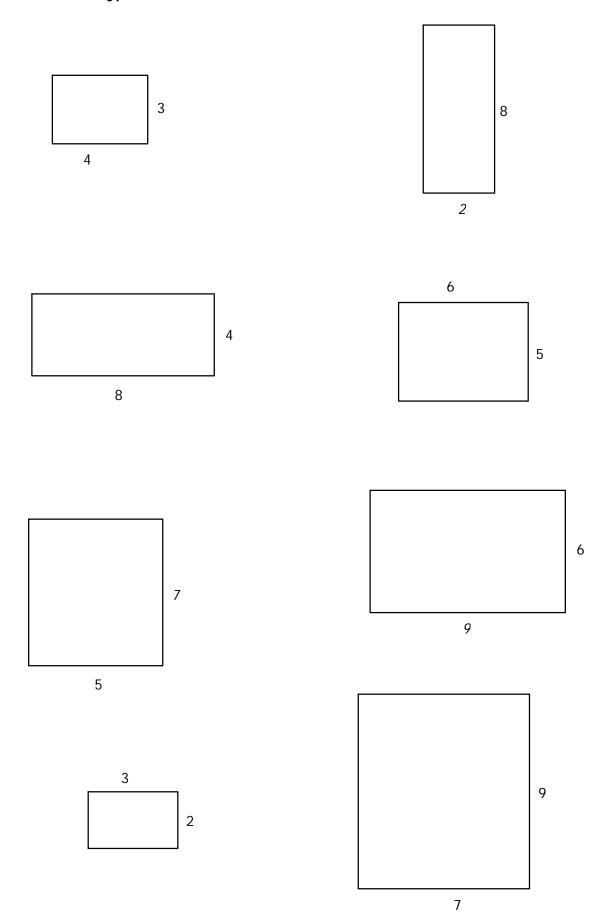
M8 - 5.0 - Square Perimeter Area HW

Find the following perimeter and areas.		7
3		9
	9	
4	6	
4	6	
	5	
7	5	
7		
2		
2		8

8

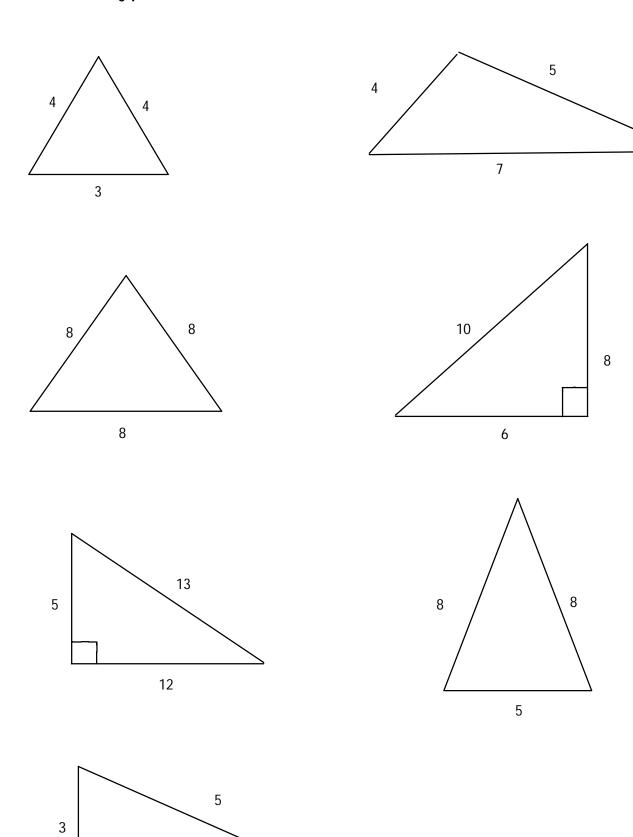
M8 - 5.0 - Rectangle Perimeter Area HW

Find the following perimeter and areas.



M8 - 5.0 - Triangle Perimeter HW

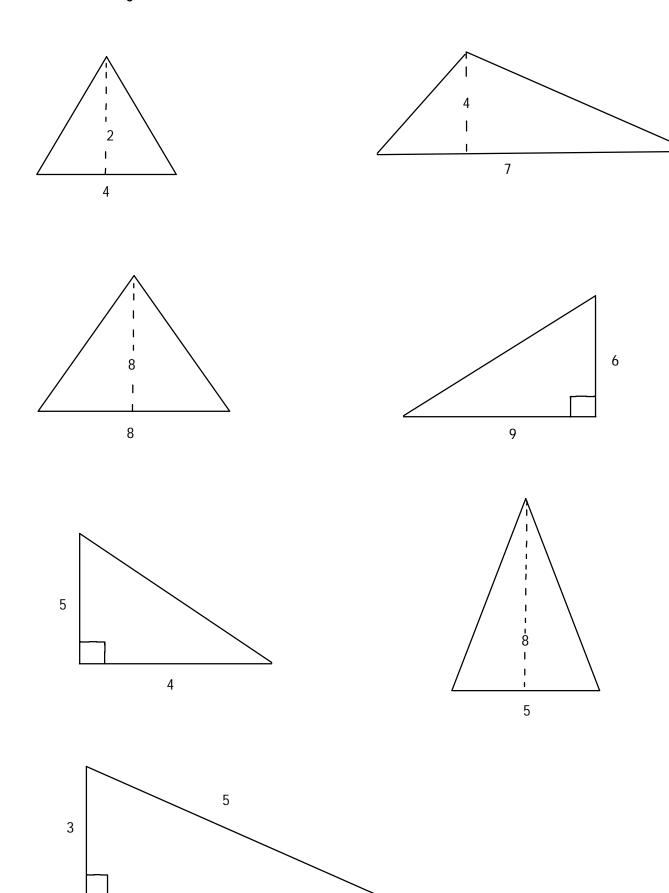
Find the following perimeters.



4

M8 - 5.0 - Triangle Area HW

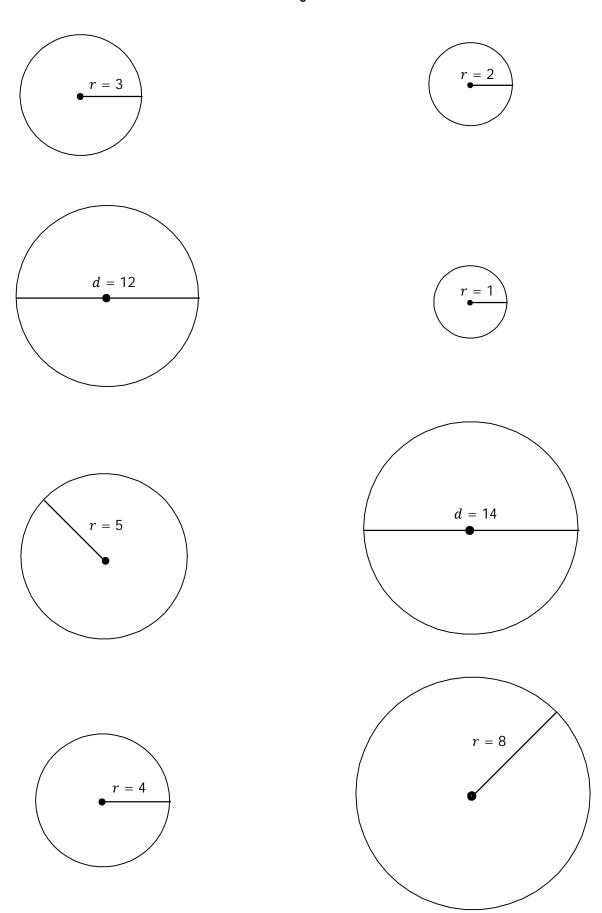
Find the following areas



4

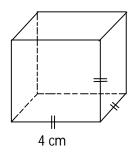
M8 - 5.0 - Circle Finding Area HW

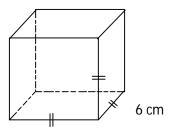
find the circumference and area of the following circles



M8 - 5.2 - Cube Surface Area HW

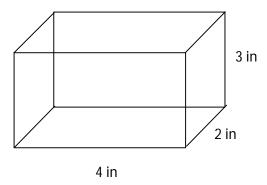
Find the surface area of this cube

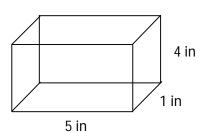




M8 - 5.2 - Surface Area Rectangular Prism HW

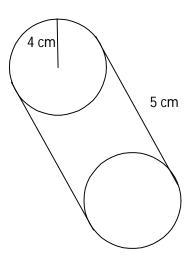
Calculate the following surface area by drawing the shape flat, labeling the dimensions, then calculating the surface area.

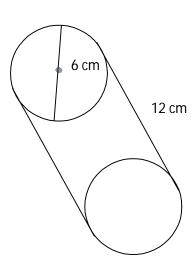




M8 - 5.3 - Surface Area Cylinder HW

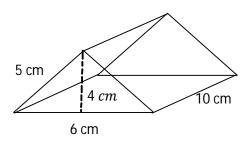
Calculate the following surface area by drawing the shape flat, labeling the dimensions, then calculating the surface area.

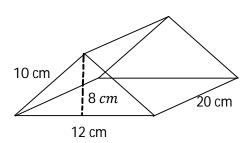




M8 - 5.3 - Triangular Prism Surface Area HW

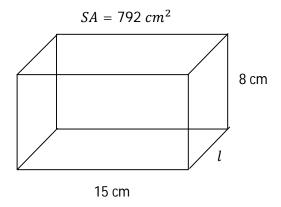
Find the surface area of this triangular prism

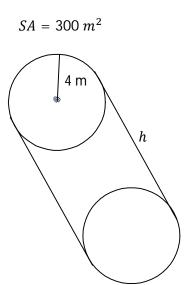




M8 - 5.4 - Surface Area Missing Dimension HW

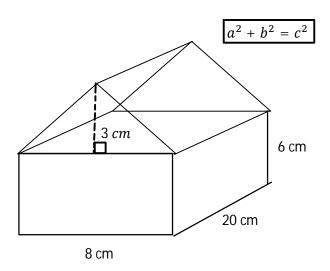
Find the missing dimension of the following shapes.

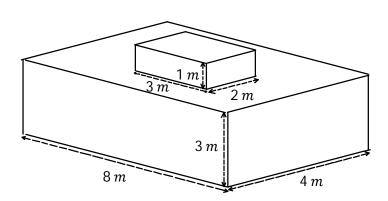


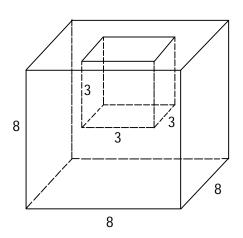


M8 - 5.5 - Rect/Tri Volume Composite Shapes HW

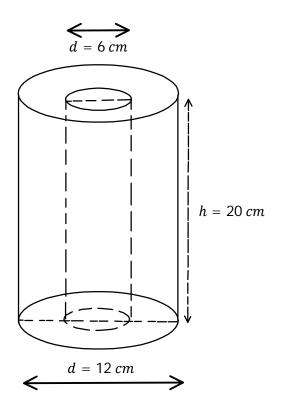
Calculate the surface area of the following shapes.

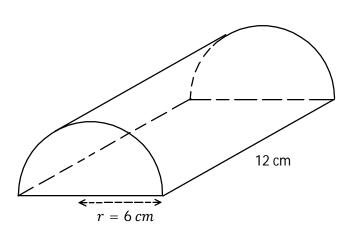






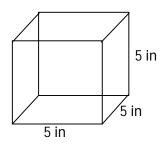
M8 - 5.5 - Cyl Volume Composite Shapes HW

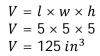


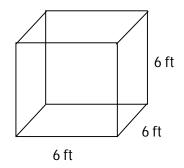


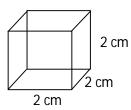
M8 - 7.1 - Cube Volume HW

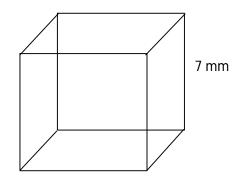
Calculate the volume in the specified units.





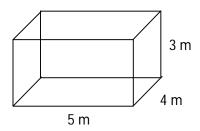




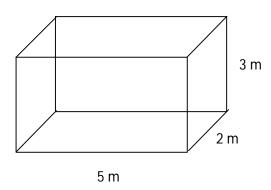


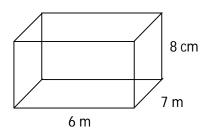
M8 - 7.1 - Rectangular Prism Volume HW

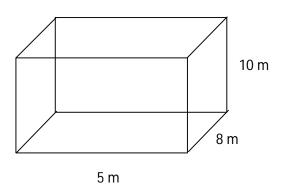
Calculate the volume in the specified units.



$$V = 3 \times 4 \times 5$$
$$V = 60 m^3$$

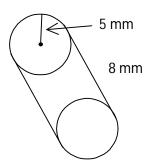






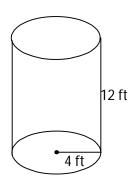
M8 - 7.2 - Cylinder Volume HW

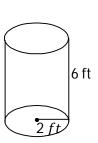
Calculate the volume of the following cylinders.

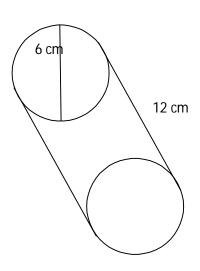


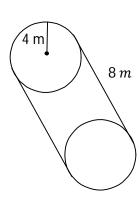
$$V = A_{base} \times height$$

 $V = \pi r^2 \times h$
 $V = \pi (5)^2 \times 8$
 $V = 25\pi \times 8$
 $V = 200\pi$
 $V = 628.32 \ mm^3$



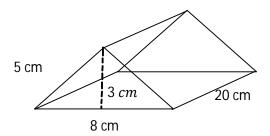


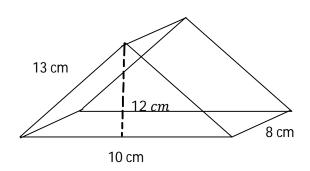


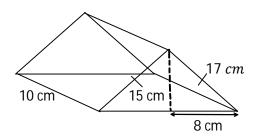


M8 - 7.2 - Triangular Prism Volume HW

Calculate the volume.

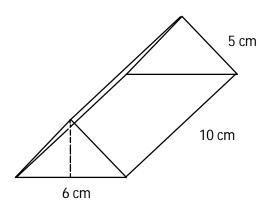


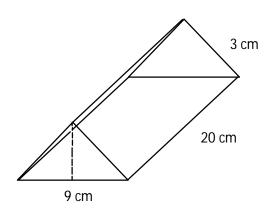




M8 - 7.2 - Volume (Tri Pythag Integers/Sqrt) HW

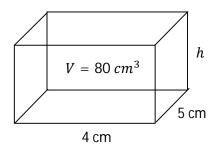
Find the following volumes



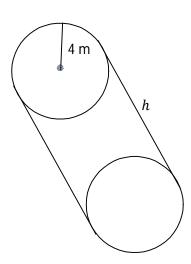


M8 - 7.3 - Rectangular Prism Missing Length HW

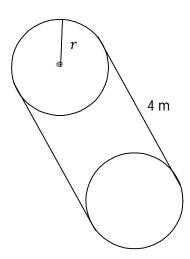
Find the missing length for the shapes below.





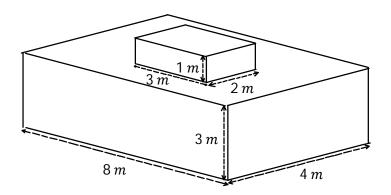


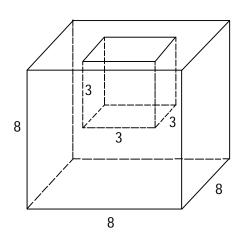
$$V=400\,m^3$$

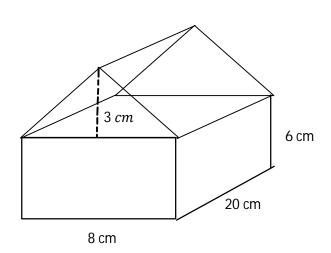


M8 - 7.4 - Rect/Tri Volume Composite Shapes HW

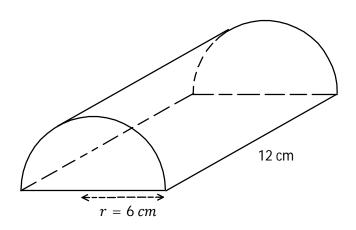
Calculate the volume of the following shapes.

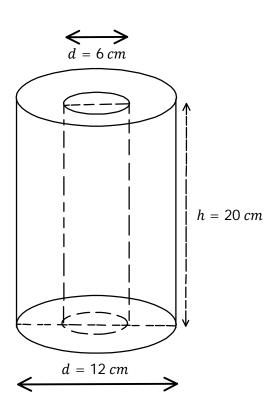






M8 - 7.4 - Cyl Volume Composite Shapes HW





1710	Ο.	0	MIG	ιτιρι	C3/ 1	act	JI 3	HW							
List the f	first 1 a nui	10 mul mbers	ltiples	of the			I	List the fa	ctors of	the fol	lowing	}			
0	y	110013						0	(III asce	nunny (Jiueij				
1															
2								1							
3								2							
4								3							
4								4							
5								5							
6								6							
7								7							
8								8							
9								9							
10								10							
11								11							
12								12							
13								13							
14								14							
15								15							
16								16							
17								17							
18								18							
19								19							
20															
25								20							
30								25							
								30							
50								50							

	ding LCM HW					
Find the LCM.						
8,5		1:	2, 10			
			7.0			
8, 6		,	15,5			
0,0		4	13, 3			
8, 6, 12		0	4 40			
0,0,12		Ο,	6, 40			
3,7	2 2	10 15		10.5		
2,5	3,2 2,4 8,6	10 , 15 8, 12		12 ,5 10 ,12	3, 7, 12 8, 10, 12 12, 30, 84	
4 ,0	8,6	10,6			12 30 84	

Find the GCF.					
6, 9		2,4			
0, 9					
GCF =					
00.45					
20, 15		26,12			
18, 21		8, 10			
54,66		30, 36			
9 , 15					
15 , 20 12, 18	0.15,0.20	12,24 12,18	20 , 30 30 , 40	30, 45, 60 12, 18, 28	
12, 18 18, 15	0.8, 1.2 0.2,0.4	12 15 12,28	169, 65 48, 36	12, 16, 28 12, 16, 28 35, 7, 49	

M8 - 6.1 - Simplification HW

Simplify the following fractions

$$\frac{2}{4} =$$

$$\frac{3}{6} =$$

$$\frac{4}{8} =$$

$$\frac{3}{9} =$$

$$\frac{2}{6} =$$

$$\frac{2}{8} =$$

$$\frac{3}{12} =$$

$$\frac{2}{16} =$$

$$\frac{2}{10} =$$

$$\frac{8}{16} =$$

$$\frac{7}{14} =$$

$$\frac{2}{14} =$$

$$\frac{6}{8} =$$

$$\frac{4}{16} =$$

$$\frac{9}{12} =$$

$$\frac{9}{21} =$$

$$\frac{16}{16} =$$

$$\frac{4}{12} =$$

$$\frac{4}{2} =$$

$$\frac{9}{2} =$$

$$\frac{15}{5} =$$

$$\frac{18}{9} =$$

$$\frac{16}{8} =$$

$$\frac{16}{4} =$$

$$\frac{12}{24} =$$

$$\frac{15}{45} =$$

$$\frac{16}{64}$$
 =

$$\frac{13}{65} =$$

$$\frac{10}{40} =$$

$$\frac{15}{90} =$$

$$\frac{4}{12} =$$

$$\frac{5}{25} =$$

$$\frac{6}{30} =$$

$$\frac{7}{42} =$$

$$\frac{5}{40} =$$

$$\frac{12}{48} =$$

Simplify the following fractions

$$\frac{6}{4}$$
 =

$$\frac{15}{10} =$$

$$\frac{18}{4} =$$

$$\frac{14}{8} =$$

$$\frac{12}{8} =$$

$$\frac{15}{6} =$$

$$\frac{24}{10} =$$

$$\frac{54}{10} =$$

$$\frac{20}{12} =$$

$$\frac{42}{14} =$$

$$\frac{22}{8} =$$

$$\frac{52}{10} =$$

$$\frac{24}{18} =$$

$$\frac{44}{33} =$$

$$\frac{56}{12} = \frac{32}{6} =$$

$$\frac{32}{6} =$$

$$\frac{56}{18} =$$

$$\frac{28}{21} =$$

M8 - 6.1 - Expansion HW

Multiply the top and bottom by 2

$$\frac{1}{2} =$$

$$\frac{1}{3} =$$

$$\frac{1}{2} = \frac{1}{3} = \frac{3}{5} = \frac{2}{3} = \frac{1}{6} = \frac{1}{6}$$

$$\frac{2}{3} =$$

$$\frac{1}{6} =$$

$$\frac{1}{4} =$$

Multiply the top and bottom by 3

$$\frac{1}{2}$$
 =

$$\frac{1}{3}$$
 =

$$\frac{1}{2} = \frac{1}{3} = \frac{3}{5} = \frac{2}{3} = \frac{1}{6} = \frac{1}{4} = \frac{1}$$

$$\frac{2}{3} =$$

$$\frac{1}{6} =$$

$$\frac{1}{4}$$

Multiply the top and bottom by 4

$$\frac{1}{2}$$
 =

$$\frac{1}{3} =$$

$$\frac{1}{2} = \frac{1}{3} = \frac{3}{5} = \frac{2}{3} = \frac{1}{6} = \frac{1}{6}$$

$$\frac{2}{3} =$$

$$\frac{1}{6} =$$

$$\frac{1}{4} =$$

Multiply the top and bottom by 5

$$\frac{1}{2} =$$

$$\frac{1}{3} =$$

$$\frac{1}{3} = \frac{3}{5} = \frac{2}{3} = \frac{1}{6} = \frac{1}{6}$$

$$\frac{2}{3} =$$

$$\frac{1}{6} =$$

$$\frac{1}{4} =$$

Change to a denominator of 12

$$\frac{1}{2} =$$

$$\frac{1}{2} = \frac{1}{3} = \frac{3}{4} = \frac{3}$$

$$\frac{3}{4} =$$

$$\frac{2}{3} =$$

$$\frac{1}{6} =$$

$$\frac{1}{4} =$$

Multiply the top and bottom by 30

$$\frac{1}{2} =$$

$$\frac{1}{2} = \frac{1}{3} = \frac{3}{5} = \frac{2}{3} = \frac{2}{3}$$

$$\frac{3}{5} =$$

$$\frac{2}{3} =$$

$$\frac{1}{6} =$$

$$\frac{1}{10} =$$

Expand the following fractions by any factor.

$$\frac{1}{2}$$
 =

$$\frac{1}{3} =$$

$$\frac{1}{3} = \frac{1}{4} =$$

$$\frac{1}{5}$$
 =

$$\frac{1}{6} =$$

$$\frac{2}{3} =$$

$$\frac{1}{9} =$$

$$\frac{7}{8}$$
 =

$$\frac{2}{3} = \frac{1}{9} = \frac{7}{8} = \frac{3}{10} =$$

$$\frac{1}{7} =$$

M8 - 6.2 - Multiplying HW

Multiply the following fractions.

$$\frac{2}{3} \times \frac{4}{5} =$$

$$\frac{1}{7} \times \frac{3}{10} =$$

$$\frac{1}{5} \times \frac{6}{7} =$$

$$\frac{2}{7} \times \frac{4}{5} =$$

$$\frac{1}{3} \times \frac{5}{8} =$$

$$\frac{2}{9} \times \frac{4}{5} =$$

$$\frac{3}{7} \times \frac{1}{2} =$$

$$\frac{7}{2} \times \frac{1}{5} =$$

$$\frac{1}{5} \times 4 =$$

$$\frac{1}{3} \times \frac{2}{3} =$$

$$\frac{1}{3} \times \frac{4}{7} =$$

$$\frac{8}{9} \times \frac{2}{1} =$$

$$\frac{2}{3} \times \frac{4}{5} =$$

$$\frac{2}{7} \times \frac{2}{3} =$$

$$\frac{3}{5} \times \frac{2}{7} =$$

$$\frac{1}{3} \times \frac{2}{3} =$$

$$\frac{3}{8} \times \frac{3}{2} =$$

$$3 \times \frac{2}{7} =$$

$$\frac{1}{2} \times \frac{1}{3} =$$

$$\frac{1}{3} \times \frac{1}{2} =$$

$$\frac{1}{4} \times \frac{1}{3} =$$

$$\frac{2}{3} \times \frac{1}{3} =$$

$$\frac{3}{5} \times \frac{7}{8} =$$

$$\frac{3}{5} \times \frac{1}{2} =$$

$$\frac{2}{7} \times \frac{3}{1} =$$

$$2 \times \frac{1}{3} =$$

$$\frac{1}{4} \times 3 =$$

Multiply then simplify if necessary, or simplify first then multiply.

$$\frac{2}{5} \times \frac{1}{2} =$$

$$\frac{6}{7} \times \frac{2}{3} =$$

$$\frac{1}{3} \times \frac{9}{11} =$$

$$\frac{3}{7} \times \frac{7}{2} =$$

$$\frac{1}{8} \times \frac{4}{7} =$$

$$\frac{2}{5} \times \frac{25}{27} =$$

$$\frac{3}{5} \times 5 =$$

$$\frac{1}{3} \times 3^2 =$$

$$\frac{7}{2} \times \frac{4}{21} =$$

$$\frac{1}{3} \times 3^3 =$$

$$4\times\frac{3}{16}=$$

$$\frac{2}{8} \times \frac{3}{6} =$$

M8 - 6.2 - Dividir	ng Fractions HW		
Divide the following fraction	ons.		
$\frac{1}{2} \div \frac{4}{7} =$	$\frac{2}{7} \div \frac{3}{5} =$	$\frac{1}{2} \div \frac{2}{3} =$	
$\frac{3}{10} \div \frac{1}{3} =$	$\frac{1}{3} \div \frac{1}{2} =$	$\frac{3}{7} \div \frac{1}{2} =$	
$\frac{1}{5} \div \frac{2}{3} =$	$\frac{5}{7} \div \frac{4}{5} =$	$\frac{1}{2} \div \frac{4}{7} =$	
$\frac{2}{11} \div \frac{1}{3} =$	$\frac{1}{5} \div \frac{1}{2} =$	$\frac{2}{7} \div \frac{3}{5} =$	
$\frac{1}{4} \div 2 =$	$\frac{3}{5} \div 4$	$0 \div \frac{1}{2} =$	
$\frac{1}{2} \div 0 =$	$\frac{1}{7} \div \frac{1}{3} \div \frac{5}{2} =$		
$\frac{5}{\left(\frac{1}{3}\right)} =$	$\frac{\left(\frac{2}{3}\right)}{5} =$	$\frac{\binom{2}{5}}{\binom{3}{4}}$	
Divide the following fracti	ons then simplify.		
$\frac{1}{4} \div \frac{1}{2} =$	$\frac{1}{3} \div \frac{1}{6} =$	$\frac{9}{14} \div 3 =$	
$\frac{6}{7}$ ÷ 3 =	$\frac{4}{5} \div 4 =$	10 11 ÷ 5 =	
$2 \div \frac{5}{4} =$	$7 \div \frac{5}{6} =$	$\frac{2}{5} \div \frac{3}{10}$	

M8 - 6.3	- Improper to Mixed	Fractions HW		
Company from				
	an improper fraction to a mixed		7	
6 5	10 =	$\frac{5}{2} =$	$\frac{7}{2} =$	
$\frac{3}{2}$ =	$\frac{19}{3} =$	$\frac{15}{2} =$	$\frac{15}{4} =$	
			7	
$\frac{23}{6} =$	23 5	21 4	$\frac{19}{6}$ =	
			6	
$\frac{27}{2} =$	$\frac{17}{3} =$	$\frac{27}{5} =$	35	
2	3	5	<u>35</u> =	
$\frac{37}{7} =$	33	69 =		
7 =	$\frac{33}{5} =$	8 _	46 7	
58		6	, ,	
$\frac{58}{7} =$	$\frac{41}{6} =$	$\frac{6}{3}$ =		
42	31	137 10 =	35 16	
$\frac{43}{14} =$	31 13	10	16	
91	41	65	49	
$\frac{91}{12} =$	41 11	$\frac{65}{12} =$	$\frac{49}{17} =$	
71 15 =	100 =	$\frac{8}{6}$ =	$\frac{10}{6} =$	
	,		0	
	10			
$\frac{6}{4}$ =	$\frac{10}{4} =$			
4				

NAO (2 NA:us d	ta Ilaan ulan ah Enal	at: a a a 1 1 \ \ \ \		
M8 - 6.3 - Mixed	to improper Fra	CTIONS HVV		
Convert from a mixed numb	oer to an improper fracti	on		
$2\frac{1}{2}$	$3\frac{1}{3} =$	$2\frac{1}{3} =$	$4\frac{4}{5} =$	
2 2	3	3		
_ 3	$5\frac{1}{2} =$	$3\frac{2}{5} =$	$5\frac{1}{4} =$	
$3\frac{3}{5} =$	2	5		
$7\frac{2}{3} =$	5	$11\frac{1}{2} =$	7 3 =	
7 3 =	$6\frac{5}{6} =$	2	7 8 -	
		_	2	
$2\frac{3}{4} =$	$12\frac{2}{3} =$	$6\frac{5}{9} =$	$4\frac{2}{5} =$	
$7\frac{3}{4} =$	19	6 1/7 =	$5\frac{3}{5} =$	
4	$1\frac{19}{20} =$	7	5	
			4	
$9\frac{3}{7} =$	$5\frac{3}{11} =$	$7\frac{5}{7} =$	$13\frac{4}{9} =$	
$12\frac{7}{13} =$	8 2/17 =	$4\frac{7}{25} =$		
13	17	25		

M8 - 6.4 - Adding Fractions HW

Add the following fractions

$$\frac{1}{3} + \frac{1}{3} =$$

$$\frac{1}{4} + \frac{1}{4} =$$

$$\frac{2}{7} + \frac{3}{7} =$$

$$\frac{1}{5} + \frac{2}{5} =$$

$$\frac{1}{4} + \frac{2}{4} =$$

$$\frac{1}{5} + \frac{3}{5} =$$

$$\frac{1}{7} + \frac{2}{7} =$$

$$\frac{1}{9} + \frac{4}{9} =$$

Add the following fractions by finding the LCD

$$\frac{1}{2} + \frac{1}{3} =$$

$$\frac{1}{2} + \frac{2}{5} =$$

$$\frac{3}{5} + \frac{1}{4} =$$

$$\frac{1}{5} + \frac{5}{7} =$$

$$\frac{1}{4} + \frac{2}{7} =$$

$$\frac{1}{3} + \frac{1}{5} =$$

Add the following fractions by finding the LCD

$$\frac{1}{2} + \frac{1}{4} =$$

$$\frac{1}{3} + \frac{2}{9} =$$

$$\frac{15}{24} + \frac{1}{3} =$$

$$\frac{2}{5} + \frac{2}{15} =$$

$$\frac{1}{7} + \frac{3}{14} =$$

$$\frac{4}{7} + \frac{4}{35} =$$

Add the following fractions by finding the LCD

$$\frac{1}{6} + \frac{4}{9} =$$

$$\frac{5}{12} + \frac{3}{8} =$$

Add the following fractions by finding the LCD. Don't forget to simplify

$$\frac{1}{2} + \frac{1}{2} =$$

$$\frac{1}{3}+\frac{4}{6}=$$

$$\frac{1}{2} + \frac{1}{6} =$$

$$\frac{1}{3} + \frac{1}{6} =$$

$$\frac{2}{15} + \frac{5}{12} =$$

Add the following fractions by finding the LCD. Don't forget to simplify or change to a mixed number.

$$\frac{3}{8} + \frac{2}{3} =$$

$$5 + \frac{1}{4} =$$

$$\frac{1}{3} + 1 =$$

$$\frac{1}{3} + \frac{4}{5} =$$

$$\frac{3}{5} + \frac{4}{6} =$$

$$\frac{4}{6} + \frac{3}{4} =$$

$$\frac{12}{24} + \frac{11}{12} =$$

$$\frac{8}{4} + \frac{4}{4} =$$

$$\frac{2}{1} + \frac{3}{4} =$$

$$\frac{1}{4} + \frac{2}{5} =$$

$$\frac{4}{12} + \frac{12}{2} =$$

M8 - 6.4 - Subtracting Fractions HW

Subtract the following fractions

$$\frac{2}{3} - \frac{1}{3} =$$

$$\frac{3}{5} - \frac{1}{5} =$$

$$\frac{5}{7} - \frac{2}{7} =$$

$$\frac{5}{9} - \frac{3}{9} =$$

Subtract the following fractions by finding the LCD

$$\frac{1}{2} - \frac{1}{3} =$$

$$\frac{5}{7} - \frac{1}{5} =$$

$$\frac{1}{2} - \frac{2}{5} =$$

$$\frac{2}{3} - \frac{3}{8} =$$

$$\frac{4}{5} - \frac{1}{3} =$$

Subtract the following fractions by finding the LCD

$$\frac{1}{3} - \frac{2}{9} =$$

$$\frac{1}{3} - \frac{1}{6} =$$

$$\frac{15}{24} - \frac{1}{3} =$$

Subtract the following fractions by finding the LCD, then simplify

$$\frac{1}{2} - \frac{1}{6} =$$

$$\frac{11}{12} - \frac{12}{24} =$$

$$\frac{5}{18} - \frac{2}{9} =$$

Subtract the following fractions then simplify, or simplify first.

$$\frac{3}{4} - \frac{1}{4} =$$

$$\frac{4}{12} - \frac{1}{6} =$$

$$\frac{4}{6} - \frac{1}{3} =$$

$$\frac{3}{7} - \frac{6}{21} =$$

$$\frac{2}{3} - \frac{3}{9} =$$

Subtract the following fractions by finding the LCD, change to a mixed number.

$$5 - \frac{1}{4} =$$

$$3 - \frac{1}{3} =$$

$$6 - \frac{1}{2} =$$

Subtract the following fractions then simplify

$$\frac{3}{2} - \frac{1}{2} =$$

$$\frac{1}{2} - \frac{2}{4} =$$

$$\frac{8}{4} - \frac{4}{4} =$$

$$\frac{2}{4} - \frac{4}{8} =$$

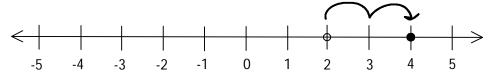
$$\frac{1}{2} - \frac{1}{2} =$$

$$\frac{17}{34} - \frac{1}{2} =$$

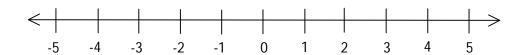
M8 - 8.1 - Add/Subtract +/- Integers # Line HW

Add and subtract the following integers using the number line.

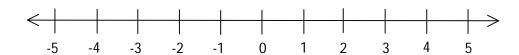
2 + 2 = 4



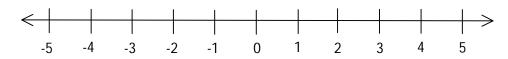
5 - 4 =



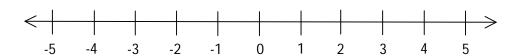
2 - 5 =



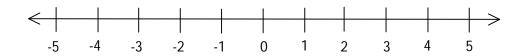
4 - 8 =



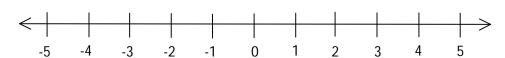
-2 - 1 =



(-1) + (-3) =

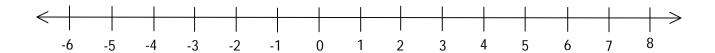


2 - (-3) =



M8 - 8.1 - Add/Subtract +/- Integers HW

Add and subtract the following integers using the number line.



$$3 + 5 =$$

$$5 - 2 =$$

$$2 + 2 =$$

$$3 - 1 =$$

$$4 - 8 =$$

$$5 - 7 =$$

$$9 - 9 =$$

$$1 - 3 =$$

$$5 + (-2) =$$

$$4 + (-4) =$$

$$3 + (-6) =$$

$$(-2) + 4 =$$

$$5 + (2) =$$

$$4 + (+4) =$$

$$3 - (6) =$$

$$(-2) + (-4) =$$

$$3 - (-2) =$$

$$(-1) - (-4) = 2 - (-6) =$$

$$2 - (-6) =$$

$$(-2) - 4 =$$

$$(-4) - (+2) = 6 + (-4) =$$

$$6 + (-4) =$$

$$3 + (-6) =$$

$$(-2) + 4 =$$

$$4 + 2 + 1 =$$

$$8 - 2 =$$

$$7 - 1 - 1 =$$

$$5 - 2 + 1 =$$

$$5 - 4 + 4 =$$

$$6 - 6 - 5 =$$

$$1 + 2 + 3 =$$

$$8 - 10 =$$

$$5 + (-10) =$$

$$5 + (-4) - (-1) = (-3) - (2) + 3 =$$

$$(-3) - (2) + 3 =$$

$$5 - (-2) + 4 =$$

$$6 + 2 - (-1) =$$

$$5 - (-2) + 4 = 6 + 2 - (-1) = (5) - (-1) + 3 =$$

$$6 - 4 + 2 =$$

$$7 + 8 =$$

$$15 - 7 =$$

$$16 - 11 =$$

$$5 - (-11) =$$

$$12 - 8 + (-4) = 14 - 4 - 10 =$$

$$14 - 4 - 10 =$$

$$(-3) - (-16) - (4) =$$

M8 - 8.2 - Multiply/Divide +/- Integers HW

Multiply or divide the following.

$$3 \times 2 =$$

$$5 \times (-2) =$$

$$5 \times (2) =$$

$$3 \times (-2) =$$

$$(-4) \div (+2) =$$

$$4 \div (-2) =$$

$$5 \div (-5) =$$

$$(-90) \div 15 =$$

$$5 \times 2 \div 1 =$$

$$(-90) \div 15$$

$$(-32) \div (-8) =$$

5 × 4 ÷ 4 =

 $4 \times 2 =$

 $5 \times 3 =$

 $4 \times (-4) =$

 $4 \times (+4) =$

 $6 \times (-4) =$

 $0 \times 2 \times 3 =$

 $(-6) \div (2) =$

 $(-16) \div (-8) =$

 $(-1) \times (-4) =$

$$2 \times 2 =$$

$$3 \times (-6) =$$

$$3 \times (6) =$$

$$6 \div (-3) =$$

$$3 \times (-6) =$$

$$(-21) \div (-3) =$$

$$(-9) \div (+3) =$$

$$(-6) \div (-6) =$$

$$6 \div 6 \times 5 =$$

$$3 \div 1 =$$

$$(-2) \times 4 =$$

$$(-2) \times (-4) =$$

$$(-8) \times 4 =$$

$$(-2) \times 4 =$$

$$(-24) \div 8 =$$

$$(+45) \div (-9) =$$

$$(77) \div (-7) =$$

$$1 \times 2 \times 3 =$$

$$13 \times 10 =$$

$$13 \times (-10) =$$

$$5 \times (-4) \div (-1) = (-3) \times (2) \times 3 =$$

$$(-3) \times (2) \times 3 =$$

$$5 \times (-2) \times 4 =$$

$$5 \times (-2) \times 4 = 6 \div 2 \times (-1) =$$

$$(5) \times (-1) \times 3 =$$

$$6 \times 4 \div 2 =$$

$$5 \times (-5) =$$

$$2 \times 12 \div (6) =$$

$$14 \div 7 \times 10 =$$

$$(-3) \times (-10) \div (5) =$$

$$\frac{60}{-12} =$$

$$\frac{-36}{6} =$$

$$\frac{35}{5} =$$

$$\frac{9}{-1} =$$

$$\frac{75}{-5} =$$

$$-\frac{56}{7} =$$

$$-\frac{144}{-12} =$$

$$\frac{99}{-3} =$$

$$-\frac{24}{8} =$$

$$\frac{-24}{6}$$
 =

$$-\frac{(-4)}{(-2)} =$$

$$\frac{-81}{-(-9)} =$$

$$\frac{-4}{12} =$$

$$\frac{-5}{-45} =$$

$$\frac{50}{-10} =$$

$$-\left(\frac{-6}{-8}\right) =$$

$$-\left(\frac{27}{3}\right) =$$

$$\frac{(-6)}{18} =$$

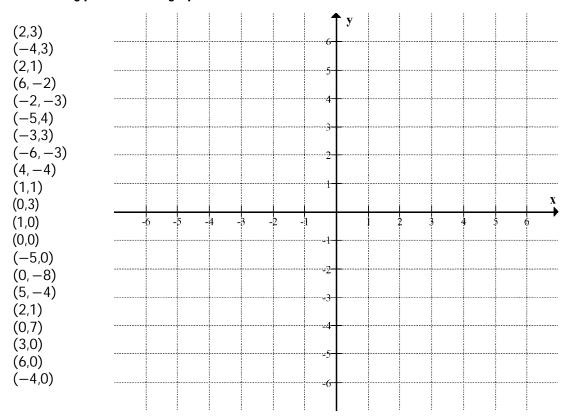
M8 - 8.3 - Order o	f Operations Integers I	HW
Evaluate the following expre		
3 + 2 - 4 =	10 – 5 + 2 =	6 - 3 + 4 =
4 + 3 - 6 =	8 – 5 – 4 =	2 + 5 - 10 =
Evaluate the following expre	ssions:	
8 ÷ 2 – 6 =	3 + 3 × 2 =	6 ÷ 3 + 5 =
0 . 2 0	0.072	
9 ÷ 3 + 5 =	5 – 3 × 2 =	7 × 2 + 6 =
$(3 + 2) \times 2 =$	(7 – 3) ÷ 2 =	$(8-2) \times (9-5) =$
Evaluate:		
10 ÷ (7 – 2) =	18 ÷ (-3 + 6) =	$(3 + 5) \times 6 =$
$(-7 \times 2) + 10 \times 2 =$	$(4 + 1) \div 5 \times 2 =$	$(7-4)^2 \times 2 =$
$5^2 - 4^3 =$	$3^3 - 2^4 =$	$(5+3)^2 =$

M8	- 8.3	- Or	der	of ()per	atio	ns Inte	gers	HW						
Evaluat	e the fo	niwollo	ng exp	oressic	ons:										
2 ² –	3 =				2 ³	3×5^2	=			7 ² –	18 ÷	2 =			
2 × 4	$4^2 + 3^2$	=			80	⁾ × 5 -	$-3^2 =$			(9 –	2) + (6 =			
										ì	,				
(4 –	5) × 10	$\mathfrak{I}^2 =$			64	4 ÷ (1:	2 – 4) =			(4 +	2) ² ÷	4 =			
2(5 -	$-3)^2 =$:			3	× 8 –	5 + 3			5 × 2	2 – 5 - 3	+ 4 =			
Evaluat	e the fo	ollowir	ng exp	oressic	ons:										
-3^{2} (4 + (-6	6)) =			(-	-2) ² (6	- (-4))	_		-4 ² -	+ (4 +	(-1) ²	²) ² =		
		3,,			`	۷, (۵	(, ,			-			,		
–14 -	+ (-2)	2			23	((-3)	$^{2}-(-1)$	3)		2 ² +	(_2) ²				
6 –	+ (-2) ² - (-4)	-=				4 –	$(-6)^{2}$	 =		$\frac{2^2 +}{14 -}$	3×4	=			

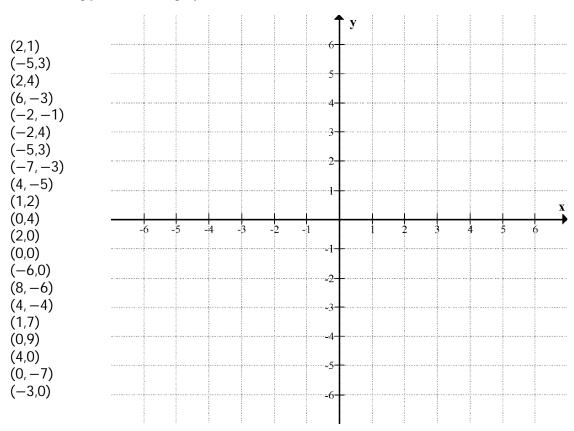
M8	- 8.	4 -	Inse	rt B	racl	kets	s to	Ma	ke 1	rue	: HV	V					
Insert	brack	ets int	o the e	equation	on to n	nake t	he sta	temen	t true.								
				•													
8 –	3 + 2	= 3				3 ×	4 – 2	= 6				4 ×	3 + 2	× 2 =	40		
18 -	÷ 3 +	1 = 6							1 + 9	9 ÷ 5 =	= 2						
1 – 5	÷ 2 –	1 × 5	= -7					2	2 + 4								
	_							2	2 + 1	- 1 =	1						
1 + 2	÷ 3 ×	5 + 1	= 6						I <i>–</i> 20	+ 5 ÷	5 × 2	= -9					
		•									U L	•					
3 – 5	× 3 ÷	3 × 2	= -2						12 ÷ 3	× 4 =	4 – 1	÷ 3					
2 4	_	2 2	0	2 2						, ,	, ,	4	0				
3 - 1	× 5 —	2 = 3	×8 –	3 × 2					<u> </u>	-6+2	<u>/</u> — 3 >	< 4 =	ŏ				

M8 - 9.1 - Plotting Points Graph HW

Plot the following points on the graph



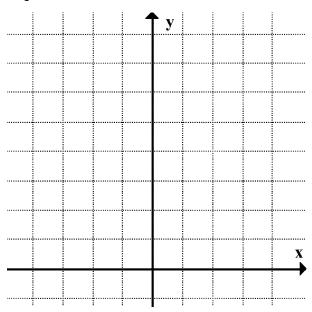
Plot the following points on the graph



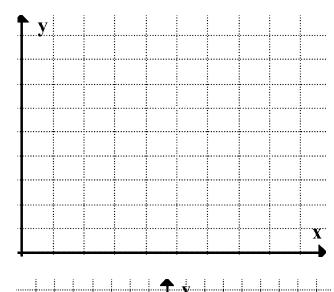
M8 - 9.1 - Plotting Points Graph HW

Graph the following line using a table of values.

y
<i>y</i> 9
4
1
0
1
4
9



x	y
0	0
1	1
4	2
9	3



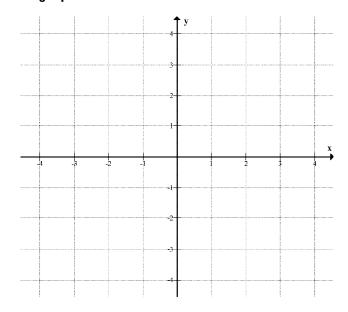
x	y
-2	-8
-1	-1
0	0
1	1
2	8

 			 	 	 •••••		 			
 ••••			 		 		 			
										X
										,
 	:	:	:	 : ""	 	:		:	:	

M8 - 9.2 - Graphing Equations TOV y=x,y=x+2 HW

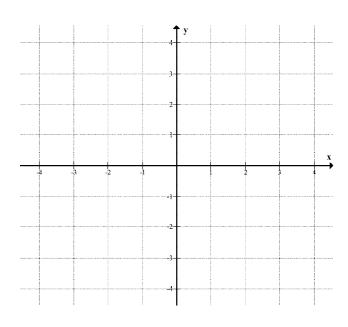
$$y = x$$

x	у
-2	
-1	
0	
1	
2	



$$y = x + 2$$

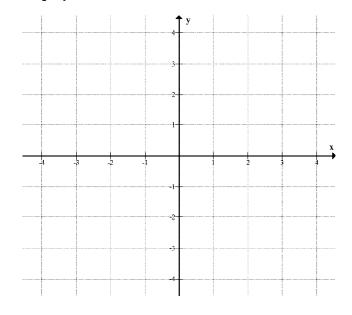
y - x	T Z
x	y
-2	
-1	
0	
1	
2	



M8 - 9.2 - Graphing Equations TOV y=x-1,y=x+3 HW

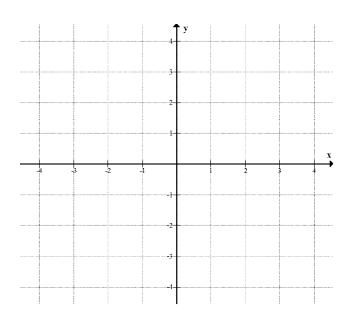
$$y = x - 1$$

x	y
-2	
-1	
0	
1	
2	



$$y = x + 3$$

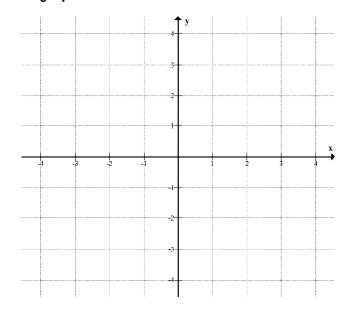
x	y
-2	
-1	
0	
1	
2	



M8 - 9.2 - Graphing Equations TOV y=2x-1, y=2x+3 HW

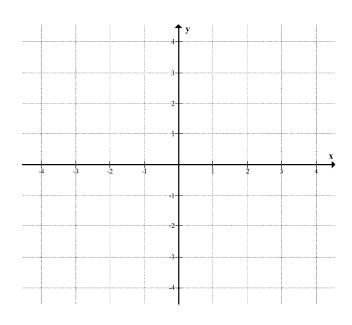
$$y = 2x - 1$$

x	у
-2	
-1	
0	
1	
2	



$$y = 2x + 3$$

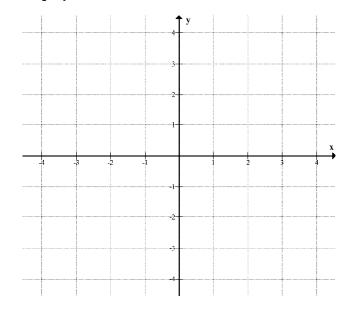
x	y
-2	
-1	
0	
1	
2	



M8 - 9.2 - Graphing Equations TOV y=3x,y=3x-1 HW

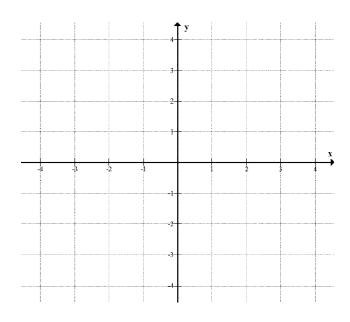
$$y = 3x$$

x	у
-2	
-1	
0	
1	
2	



$$y = 3x - 1$$

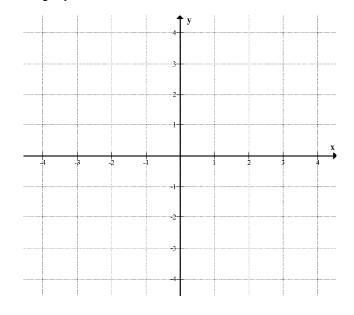
	0.	•	•	
x			y	
-2				
-1				
0				
1				
2				



M8 - 9.2 - Graphing Equations TOV y=3x+4, y=3x-2 HW

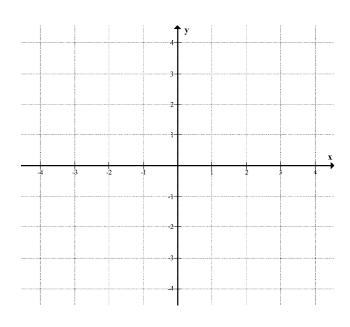
$$y = 3x + 4$$

x	у
-2	
-1	
0	
1	
2	



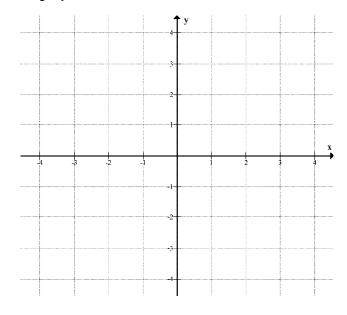
$$v = 3x - 2$$

y – 3.	<i>n</i>
x	y
-2	
-1	
0	
1	
2	



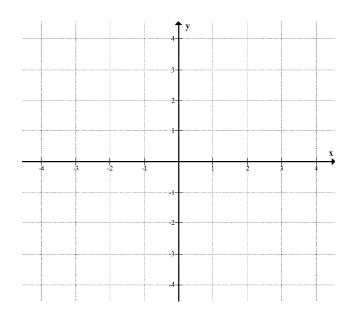
M8 - 9.2 - Graphing Equations TOV y=1/2x,y=1/2x+1 HW

<i>y</i> =	$\frac{1}{2}x$
x	y
-2	
-1	
0	
1	
2	



$$y = \frac{1}{2}x + 1$$

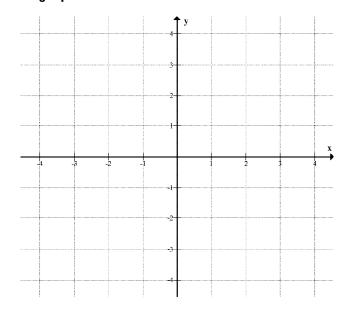
x	y
-2	
-1	
0	
1	
2	



M8 - 9.2 - Graphing Equations TOV y=-x, y=-x+1 HW

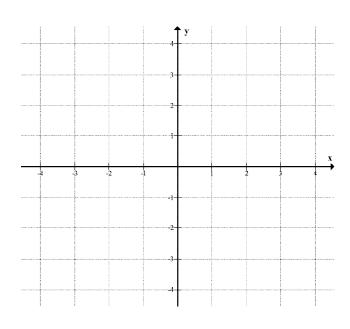
$$y = -x$$

x	у
-2	
-1	
0	
1	
2	



$$y = -x + 1$$

,	
x	y
-2	
-1	
0	
1	
2	

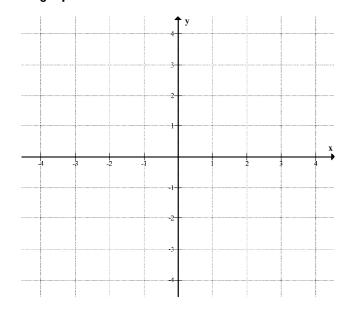


M8 - 9.2 - Graphing Equations TOV y=-2x-2, y=-1/2x+4 HW

Use a table of values to graph the following equation.

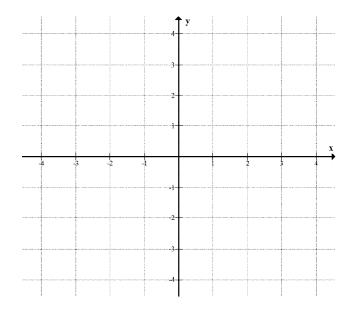
$$y = -2x - 2$$

x	у
-2	
-1	
0	
1	
2	



$$y = -\frac{1}{2}x + 4$$

x	y
-2	
-1	
0	
1	
2	

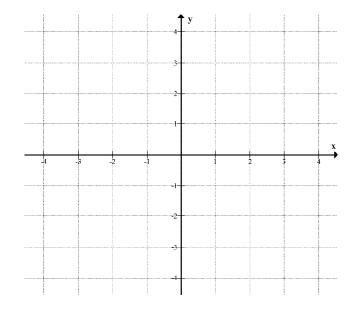


M8 - 9.2 - Graphing Equations TOV y=-2/3x-2, y=-1/2x+4 HW

Use a table of values to graph the following equation.

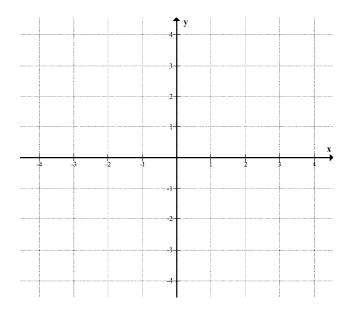
$$y = -\frac{2}{3}x - 2$$

x	у
-3	
-1	
0	
1	
3	



$$y = -\frac{1}{2}x + 4$$

x	y
-2	
-1	
0	
1	
2	



M8 - 10.0 - blank + b = c HW

+ -

Fill in the blank and find another relationship.

$$2 + 3 = 5$$

 $5 - 3 = 2$

Fill in the blank and find another relationship.

$$5 - 2 = 3$$

 $3 + 2 = 5$

$$-5 = 9$$
 $= 14$

Fill in the blank and find another relationship.

$$-2 + 10 = 8$$

 $10 - 2 = 8$

$$\underline{} + 14 = 7$$
 $= 21$

$$--+5 = -4$$
 $= -9$

$$-4 = -9$$
 $= -5$

$$--7 = -12$$

= -5

$$- 5 = -13$$

$$= -8$$

Fill in the blank and find another relationship.

$$\frac{-7}{-7} + 3 = -4$$
= -7

$$-4 = -2$$
= 2

$$--+8=3$$
 $=-5$

$$--6 = -3$$

$$- + 2 = -7$$
 $= -9$

M8 - 10.0 - "
$$a(blank) = b$$
", " $\frac{(blank)}{a} = b$ " HW

×÷

Fill in the blank and write another relationship between these numbers.

$$2 \times \underline{(3)} = 6$$

$$\frac{6}{2} = 3$$

$$-7 \times \underline{\hspace{1cm}} = 21$$

$$= -3$$

Fill in the blank and write another relationship between the numbers.

$$\frac{8}{2} = 4$$
$$8 = 4 \times 2$$

$$\frac{3}{3} = 2$$

$$6 =$$

$$\frac{-}{5} = 6$$
$$30 =$$

$$\frac{-6}{6} = -4$$

$$\frac{}{9} = 5$$

$$45 =$$

$$\frac{-2}{-2} = 11$$

$$\frac{1}{7} \times \underline{\hspace{1cm}} = 3$$

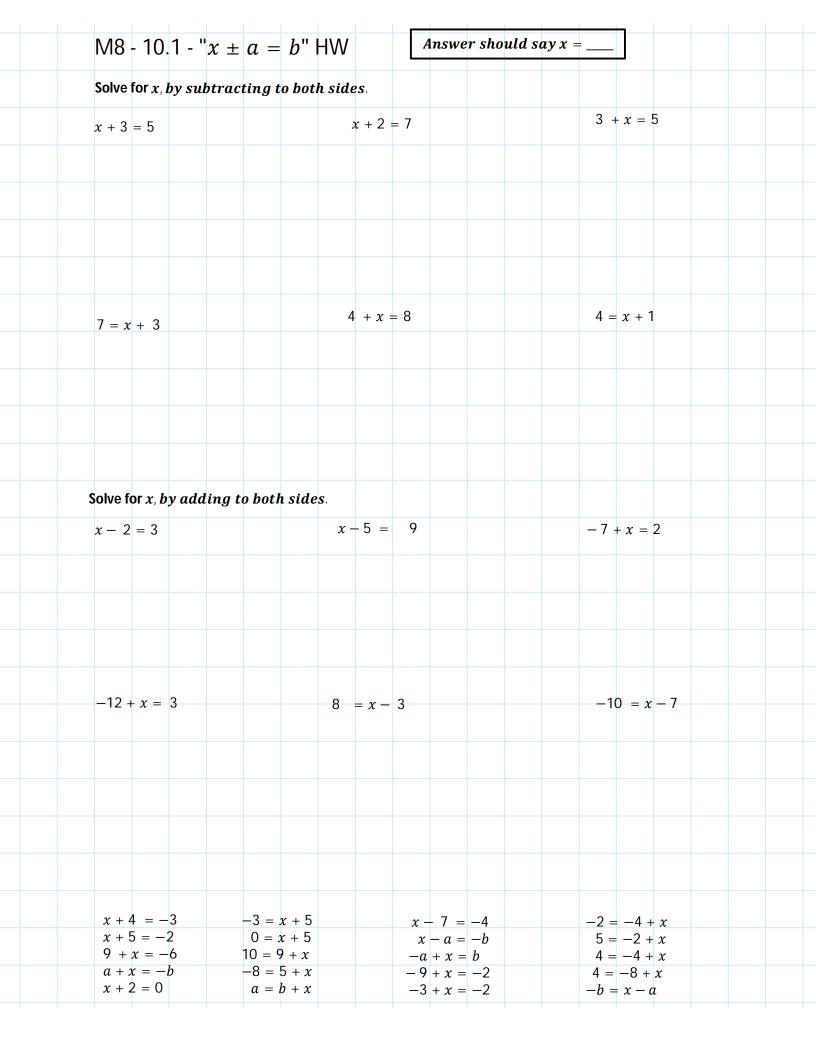
$$21 =$$

Fill in the blank.

$$\frac{2\times}{3}=6$$

$$\frac{2 \times}{9} = 4$$

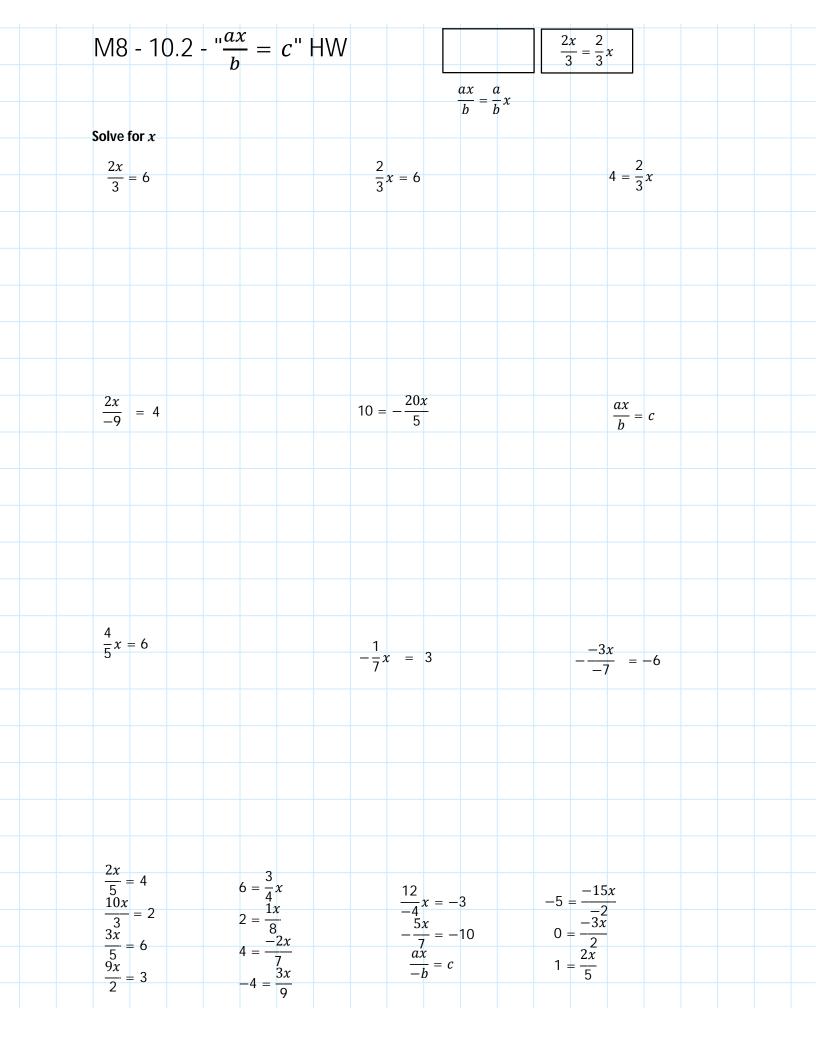
$$\frac{3\times}{7}=6$$



M8 - 10	.1x	$c \pm a$	= b'	' HW	7						
Solve for x			_					_			
5-x=2			4	-x=8			-	- <i>x</i> + 5	= 2		
4 = 6 - x			7 =	= 5 − <i>x</i>			-	-2 = 5	- <i>x</i>		
Solve for x					_						
-x-4=2			-x	- 3 =	-/		<u> </u>	3 - x =	-3		
3 = -2 - x			_	4 = -1	- x		_	5 = -4	- x		
-2 = 4 -	x	,		10							
-8 = 6 - 6	x	2 -	-x = - $-x = -$	3	-2 -	$ \begin{array}{ccc} -2 &= 4 \\ -x &= 6 \end{array} $			-x-5 $-6-x$		
$ \begin{array}{c} -b = a - \\ 3 = 8 - 1 \end{array} $	x	-x +	2 = 8 $a = -$	b		-x = 2 -a = b		3 =	$= -x - \frac{1}{x}$ $= -x - \frac{1}{x}$	7	
$\mathfrak{z} = \mathfrak{d} - \mathfrak{z}$	ı	-x +	4 = -1	3		-x = -a	d		-c-x		

M8	- 10	.2 - '	'±ax	= k	b" HW	/		Aı	nswer	shou	ld sa	y x =				
Solv	e for x.															
							5x =	45						24 =	8 <i>x</i>	
$\frac{2\lambda}{2}$	$=\frac{6}{2}$		2x = 2(3) =	6												
x	= 3		2x = 2(3) = 6 = 6	6 🗸												
Solve	e for x															
6 <i>x</i> =	3						4x =	2					1	4x =	10	
							12 –	_					1	4x –	10	
Solv	e for x															
	= 2						7 <i>x</i> =	- 1								
7.50	_						/λ -	'					2	1 = 9	x	
Sol	ve for x	_														
	= 18	•					0	0						_		
24%	= 10						3x	= 3					4	-5x =	27	
	= 12		8 <i>x</i> =			12	=4x			20x =			1	=2x		
	= 20 = 65		1x = bx =			-12 4	= 9x = 6x			4x = 3x = 3			5 3	= 3x $= 2x$		
30	=6x			15x		2	= 10	x		6x =			3:	x = 1		
	=3x		2 =	6 <i>x</i>			= 82		_	-14x =	= 21			x = 7		
0	=2x		0 =	2x		16) = -	4 <i>X</i>		-2x =	= 0		5:	x = 2		

														-		
M8	- 10.	2 - "	$\frac{x}{a} =$	b"	HW			$-\frac{1}{2} = -\frac{1}{2}$	$\frac{1}{-2} = \frac{1}{2}$	<u>-1</u>	$-\frac{3}{5}$	$\frac{x}{0} = \frac{x}{-}$	$\frac{1}{2} = \frac{-}{2}$	$\frac{x}{x}$		
Solve	for <i>x</i>						_	_	_							
$\frac{x}{2}$ =	4					$\frac{x}{3} =$	2					χ	: 4			
2						3	_					_	$\frac{x}{2} = 4$			
$-\frac{x}{2} =$	= 4					$\frac{-x}{2}$ =	: 4					$\frac{x}{-3}$	= 5			
2						2	•					- 3				
- 1 =	$\frac{x}{-6}$					$\frac{x}{-5}$	= 0					$-\frac{x}{7}$	· - = -3	3		
												•				
$-\frac{-x}{-3}$	= 5					-x						3	-			
-3						4	. = 3					\overline{x}	= 1			
									r							
$\frac{x}{5}$	= 6			$\frac{-x}{4}$	= 2			10	$=\frac{\lambda}{2}$		2		$\frac{x}{4}$			
$\frac{3}{x}$	= 6 $= 1$ $= -b$ $= -4$			$\frac{x}{-4}$	= 2 = 2 = 2 = 11			0	$=\frac{x}{2}$ $=\frac{x}{2}$ $=\frac{x}{2}$ $=\frac{x}{2}$ $=\frac{x}{4}$ $=\frac{x}{4}$ $=\frac{x}{4}$ $=\frac{x}{4}$			$-2 = -\frac{1}{x}$	$\frac{x}{4} = \frac{x}{-3}$ $\frac{1}{4} = \frac{x}{4}$ $\frac{1}{3} = \frac{x}{4}$			
$\frac{-}{x}$	$= -b$ $= -\Delta$			$\frac{-9}{-x}$	= 2			-3	$=\frac{\overline{4}}{x}$		6) =	$\frac{1}{x}$			
$\frac{6}{x}$	= -2			$\frac{-2}{x}$	= 11			7	$=\frac{4}{x}$		2	. = - . = -	$\frac{\overline{4}}{x}$			
5				2									3			



$12 = \frac{3}{x}$ $4 = \frac{8}{x}$ $2 = \frac{10}{x}$	$14 = \frac{-7}{x}$	$\frac{4}{2} = \frac{2x}{2}$ $\frac{2 = x}{x = 2}$ $\frac{-4}{x} = 2$	Solve for <i>x</i>
			$3 - \frac{a}{x} = b$ $4 - \frac{4}{x} = 2$ $4 - \frac{4}{2} = 2$ $2 = 2$
$\frac{\frac{14}{x}}{\frac{5}{x}} = 7$ $\frac{5}{x} = 10$ $\frac{9}{x} = -6$			
	$-5 = \frac{25}{x}$	$\frac{-1}{x} = 4$	$\frac{3}{x} = 9$
$-15 = -\frac{45}{x}$ $22 = \frac{-2}{x}$			
$-\frac{-8}{x} = 24$ $\frac{-6}{x} = -27$ $\frac{a}{x} = b$	$-6 = \frac{24}{x}$	$\frac{3}{x} = -5$	$15 = \frac{6}{x}$

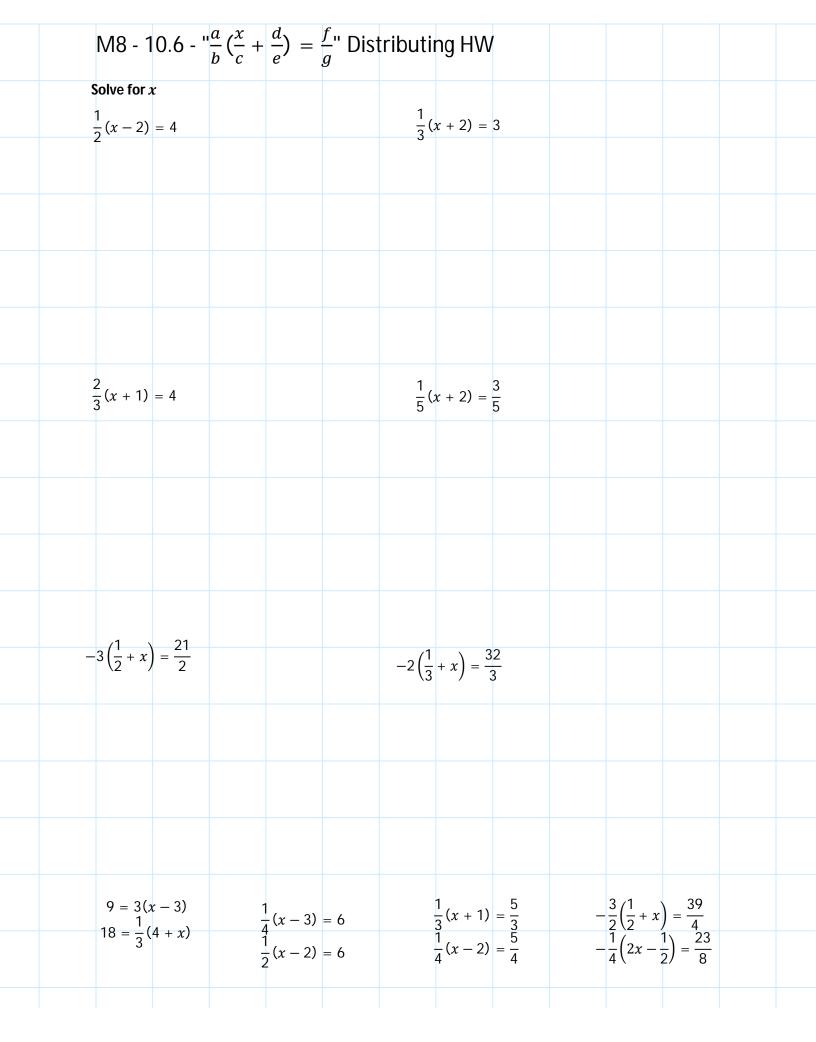
M8 -	- 10.	.3 - "	$\frac{a}{bx}$ =	= <i>c</i> "	HW	1				Answ	er sh	ould s	say x	=			
Solve																	
$\frac{24}{2x} =$	3							$\frac{16}{4x} =$	2				=	$\frac{-27}{3x} =$	9		
1 =	$\frac{3}{2}$						5	$=\frac{3}{4x}$					_	$\frac{10}{3x} = 5$)		
	2 <i>x</i>							41					3	3x			
$\frac{4}{-3x}$	= 6						_	12						1			
-3x							3	$=\frac{12}{6x}$					0 =	$=\frac{1}{2x}$			
3 =	60			3	2		15				90	_)		
3 =	$\frac{4x}{40}$			$\frac{3}{5x} = 2$ $\frac{2}{3x} = 5$ $\frac{5}{2x} = 5$	5		3 <i>x</i> 36	$= 5$ $= 4$ $\overline{x} = 8$			$\frac{90}{3x} = \frac{4}{5x} = \frac{1}{5x}$	· -5		5 5 ——————————————————————————————————	$\frac{1}{x} = 7$		
·	5 <i>x</i>			$3x$ $\frac{5}{5}$ $\frac{1}{5}$	5		$\frac{3x}{4}$	= 4 0			$\frac{1}{5x}$: ડ		<u>-2</u>	$\frac{1}{2x} = -$	-3	
				$2x^{-}$,		- 3	$\frac{1}{x} = \delta$									

M8 - 10.4			$\frac{ax}{b} = \frac{a}{b}x$		
Solve for x by cro . $\frac{2x}{6} = \frac{4}{3}$ $3 \times 2x = 4 \times 6$ $6x = 24$ $\frac{6x}{6} = \frac{24}{6}$ $x = 4$		$\frac{2}{3}x = \frac{5}{7}$ $\times 2x = 5 \times \frac{14x}{14} = \frac{15}{14}$ $x = \frac{15}{14}$ $x = \frac{15}{14}$	$\frac{2}{3}x = \frac{5}{7}$ $\frac{2}{3}\left(\frac{15}{14}\right) = \frac{5}{7}$ $\frac{5}{7} = \frac{5}{7}$	$\frac{2}{3}x = \frac{4}{5}$	
$\frac{2}{7}x = \frac{1}{4}$		$\frac{9}{4}x = \frac{7}{2}$		$\frac{1}{8} = \frac{2}{4}x$	
$\frac{4}{3x} = \frac{2}{3}$		$\frac{2}{3x} = \frac{4}{3}$		$\frac{1}{8} = \frac{2}{4x}$	
$\frac{2}{9}x = \frac{2}{9} \\ \frac{1}{9}x = \frac{2}{3} \\ \frac{3}{5}x = \frac{9}{10}$	$\frac{3x}{\frac{4}{4}} = \frac{6}{8}$ $\frac{-3x}{5} = \frac{2}{7}$ $\frac{4}{5}x = \frac{6}{7}$	$\frac{2x}{3} = -\frac{1}{2}$ $\frac{1x}{a} = -\frac{2}{7}$ $\frac{a}{b}x = \frac{c}{d}$	$ \frac{\frac{5}{x}}{\frac{3}{3x}} = \frac{7}{\frac{4}{9}} = \frac{7}{\frac{9}{2}} = \frac{10}{2x} $	$-\frac{1}{\frac{2x}{2x}} = \frac{-2}{\frac{7}{7}}$ $-\frac{a}{b} = \frac{a}{bx}$	

								Answ	er shou	ld say x	_			
M8 - [*]	10.5 - '	$\pm ax$	+ <i>b</i> =	= c"	НW									
Calma f														
Solve fo	or x													
2x + 3 =	9					3 <i>x</i>	+ 6 =	12						
F 2	2													
-5 = 2x -	+ 3					2 +	3x =	2						
						_								
-2x + 4	. = 8					-3x -	+ 8 =	17						
4 = 2 -	2													
4 = 2 -	ZX					- 2 =	7 – 32	x						
40						_	_			F	10	20		
4x + 8 = 5x + 10 = 6	= 30	18 = 2x	r + 4	5x-1	10 = 3	0	8 –	3r -	32	-5x + -4x	+ 5 =	–∠0 21		
2x + 9	= 27 = 9	-7 = 2x	c+3	3x -	2 = -	2	5 –	-7x =	-16	-2x	– 4 =	8		
2x - 3	= 9	-4 = 4x	c — 8	3x -	6 = 1	2	-5 -	-7x =	-26	-4x	– 5 =	19		

M8 - 1	0.5 - "	$\frac{\pm x}{a} + k$	b = c"	HW							
Solve f	or x										
$\frac{x}{2} + 3 =$	= 7					$\frac{x}{3} + 4 = 1$	5				
_											
$7 + \frac{x}{6} =$	- 5					$\frac{1}{2}x-3$	3 = 9				
6											
$\frac{x}{-2}$ +	3 = 7					$\frac{x}{-3} + 4$	= 5				
<i>x</i> .	2	_ x	_	x		24					
$\frac{-}{4} + 4 =$ $\frac{x}{5} + 2 =$	12	$-5 = \frac{x}{9} + $ $-2 = -2$ $5 = \frac{x}{9} + $ $-2 = -2$	$+\frac{x}{8}$	$\frac{x}{-2} - 3$ $-2 - \frac{x}{7}$	= 9 = 3	$\frac{x}{-4} + \frac{x}{x} + \frac{x}{x}$	4 = 2 2 = 12	2 +	$\frac{-x}{\frac{7}{x}} = 3$		
$\frac{x}{4} - 4 =$	2	$5 = \frac{x}{9} +$	- 2	$-7+\frac{x}{6}$	= -5	$\frac{-5}{x}$	2 = 6	/	$-\frac{7}{6} = 5$	-	
$\frac{x}{5} - 2 =$	6	-2 = -2	$+\frac{x}{8}$	$-2 + \frac{3}{7}$	= 3	$\frac{-5}{x}$	4 = 5	-7	$-\frac{1}{6} = -\frac{1}{6}$	0	

	M8 - 1	0.6 -	a(x +	b) =	c" Dis	tributi	ng HW	1				
	Solve for x											
						_	3(x + 2)	_ 3				
2	2(x-2) =	4					J (X + Z)	_ 3				
	-2(x-1)) = 6				_	-6(x-5)	= 30				
	3(x + 2)	= 10					4(x-1)	– 15				
	5 (x + 2)	_ 10					Τ(λ 1)	_ 13				
	5(x-x)	2) = 10	5(x +	2) = 25	9 =	3(x-3)	5	(x - 1) :	= -17 -	-2(x + 4)	= -10	
	4(x - 1)	(2) = 4	-6(x +	2) = 18	18 =	-3(4 -	(x) -2	(x + 2)	= 19 -	-2(x + 4) -3(1 + x)	= 9	
	2(x + 3)	5) = 8	-4(x-	4) = -6	4 15 =	-3(x +	o) —/	(1-x)	= 2	2(x-3)	= /	



M8 - 10.6 - " $\frac{a}{x+b} = c$ " Distributing HW Solve for x $\frac{15}{x+3} = 5$ $\frac{20}{x-2} = 20$ $\frac{5}{2x+1} = 1$ $\frac{100}{1-2x} = 10$ $\frac{x+3}{x-2} = 6$ $\frac{6}{x+1} = 2$ $\frac{6}{x-1} = 5$ $\frac{5x-2}{x-2} = 3$ $\frac{x+8}{2} = \frac{x+3}{2} = \frac{x+3}{2}$													
$\frac{15}{x+3} = 5$ $\frac{20}{x-2} = 20$ $\frac{5}{2x+1} = 1$ $\frac{100}{1-2x} = 10$ $\frac{x+3}{x-2} = 6$ $4 = \frac{x+3}{x-3}$		M8 - 1	0.6 - '	$\frac{a}{x+b} =$	c" Dis	tributi	ng HV	V					
$\frac{5}{2x+1} = 1$ $\frac{100}{1-2x} = 10$ $\frac{x+3}{x-2} = 6$ $4 = \frac{x+3}{x-3}$	S	olve for a	¢										
$\frac{5}{2x+1} = 1$ $\frac{100}{1-2x} = 10$ $\frac{x+3}{x-2} = 6$ $4 = \frac{x+3}{x-3}$		15 = 5	5				_	20 = 20)				
$\frac{x+3}{x-2} = 6$ $4 = \frac{x+3}{x-3}$	2	x + 3					х	-2 ⁻²⁰					
$\frac{x+3}{x-2} = 6$ $4 = \frac{x+3}{x-3}$													
$\frac{x+3}{x-2} = 6$ $4 = \frac{x+3}{x-3}$													
$\frac{x+3}{x-2} = 6$ $4 = \frac{x+3}{x-3}$													
$\frac{x+3}{x-2} = 6$ $4 = \frac{x+3}{x-3}$													
$\frac{x+3}{x-2} = 6$ $4 = \frac{x+3}{x-3}$													
$\frac{x+3}{x-2} = 6$ $4 = \frac{x+3}{x-3}$		5						100					
		$\frac{3}{2x+1}$	= 1				_	$\frac{100}{1-2x} =$	10				
		<i>x</i> + 3						x + 3					
$\frac{6}{\frac{x+1}{x-2}} = 2$ $\frac{6}{\frac{12}{x-2}} = 6$ $\frac{6}{\frac{5x-2}{x-1}} = 3$ $\frac{x+8}{x-1} = 4$ $\frac{5}{2} = \frac{x+3}{x-3}$		$\frac{x}{x-2}$	= 6					$1 = \frac{1}{x - 3}$					
$\frac{6}{\frac{x+1}{x-2}} = 2$ $\frac{12}{x-2} = 6$ $\frac{6}{\frac{5x-2}{x-1}} = 3$ $\frac{x+8}{x-1} = 4$ $\frac{5}{2} = \frac{x+3}{x-3}$													
$\frac{6}{x+1} = 2$ $\frac{6}{5x-2} = 3$ $\frac{x+8}{x-1} = 4$ $\frac{5}{2} = \frac{x+3}{x-3}$													
$\frac{6}{\frac{x+1}{x-2}} = 2$ $\frac{6}{\frac{12}{x-2}} = 6$ $\frac{\frac{6}{5x-2}}{\frac{6}{x-1}} = 3$ $\frac{\frac{x+8}{x-1}}{\frac{5}{2}} = \frac{x+3}{x-3}$													
$\frac{6}{x+1} = 2$ $\frac{12}{x-2} = 6$ $\frac{6}{5x-2} = 3$ $\frac{6}{5x-2} = 3$ $\frac{5}{2} = \frac{x+3}{x-3}$													
$\frac{6}{\frac{x+1}{x-1}} = 2$ $\frac{12}{x-2} = 6$ $\frac{6}{\frac{5x-2}{x-1}} = 3$ $\frac{6}{\frac{5x-2}{x-1}} = 3$ $\frac{5}{\frac{2}{x}} = \frac{x+3}{x-3}$													
$\frac{6}{x+1} = 2$ $\frac{12}{x-2} = 6$ $\frac{6}{5x-2} = 3$ $\frac{6}{5x-2} = 3$ $\frac{6}{x-1} = 5$ $\frac{5}{2} = \frac{x+3}{x-3}$													
$\frac{x+1}{x-2} = 6$ $\frac{5x-2}{6} = 5$ $\frac{5}{2} = \frac{x+3}{x-3}$		$\frac{6}{x + 1} =$	2		_	6 = 6	3		<u>x</u>	+ 8			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$\frac{x+1}{12} = \frac{x+1}{x+2} = \frac{x+1}{x+2}$	6		5	$\frac{6x-2}{6} = 5$			X	$\frac{5}{2} = \frac{x}{1}$	+ 3		
		x — 2			х	: – 1				2 X	– s		

M8 - 10.7 - LCD "2	$c + \frac{b}{c} = \frac{d}{e}$ H	W		
Solve for x by multiplying				
$x-1=\frac{1}{2}$	$x - 1 = \frac{1}{2}$	1		
$2 \times (x - 1) = \frac{1}{2} \times 2 \qquad (\frac{3}{2})$ $2x - 2 = 1$	$1 - 1 = \frac{2}{1}$	$x-1=\frac{1}{4}$		
$x - 1 = \frac{1}{2}$ $2 \times (x - 1) = \frac{1}{2} \times 2 \qquad (\frac{3}{2})$ $2x - 2 = 1$ $+2 \qquad +2$ $\frac{2x}{2} = \frac{3}{2}$	$\frac{1}{2} - \frac{1}{2} = \frac{1}{2}$			
$x = \frac{3}{2}$				
$\frac{1}{5} = x + 1$		$3+x=\frac{1}{3}$		
$x + \frac{1}{6} = \frac{1}{3}$ $6 \times \left(x + \frac{1}{6}\right) = \frac{1}{3} \times 6$ $6x + \frac{6}{6} = \frac{6}{3}$ $6x + 1 = 2$ $-1 - 1$ $\frac{6x}{6} = \frac{1}{6}$	$x + \frac{1}{6} = \frac{1}{3}$	$\frac{1}{4} + x = \frac{1}{3}$		
$6 \times \left(x + \frac{1}{6}\right) = \frac{1}{3} \times 6$ $6x + \frac{6}{6} = \frac{6}{2}$	$x + \frac{1}{6} = \frac{1}{3}$ $(\frac{1}{6}) + \frac{1}{6} = \frac{1}{3}$ $\frac{2}{6} = \frac{1}{3}$ $\frac{1}{3} = \frac{1}{3}$	4 3		
6x + 1 = 2 $-1 - 1$ $6x - 1$	$\frac{6}{3} = \frac{3}{3}$			
$x = \frac{1}{6}$				
$x - \frac{1}{4} = \frac{1}{2}$	$2 = x - \frac{3}{2}$. 1 2	2	7
$x - \frac{1}{4} = \frac{1}{2}$ $x - \frac{5}{6} = -\frac{1}{3}$	$2 = x - \frac{3}{4}$ $5 = \frac{1}{2} - \frac{x}{3}$	$x + \frac{1}{4} = \frac{2}{3}$ $\frac{x}{2} + \frac{1}{4} = \frac{1}{2}$	$\frac{2+x}{2}$ $\frac{3}{2} + \frac{x}{2}$	
	2 3	2 4 2	2 2	4

	M8 - 1	10.8 - '	ax +	b = cx	x + d''	HW					
				_							
	Solve f	or x									
	2x = 4	+ x	2x = 4	1 + x	2.	x = 3 + x	• •		2x = 5 +	24	
	-x	- <i>x</i>	2x = 4 $2(4) = 4$ $8 = 8$	1 + 4					2x = 5 +	X	
(x = 4		8 = 8								
`	\mathcal{L}										
	4x = 16	+ 3 <i>x</i>			4 <i>x</i>	= 12 + 2:	r		-	0	
					170			6 <i>x</i>	x = 5x -	9	
	4x + 3 =	= 3x - 2			6 <i>x</i> +	2=5x-	- 6	2x + 1	+3x=2	2 + 4x	
	-3x = 18		-33	+3x=3	14 <i>x</i>	5x - 3 =	= 3x - 1	7x + 5 =	2x + 5		
	8x = -	12 + 4x	. •	+4x =		6x + 4 =	= 2x + 1	3x - 4 =			
			(5 + 5x =	3 <i>x</i>						

ľ	M8 - 1	0.8 - "	ax +	b = c	x + d"	HW						
	olve for											
2	x + 3 =	$4 + \lambda$	2x +	3 = 4 +	x (1)	5x _ 0 -	- - 4x ±	18				
	-x	$-\lambda$	2(1) +	3 = 4 +	(1)	J. 7 -	- TA T	10				
x	+36 = 4	_ 3		5 = 5	/							
	x = 1)										
	-2x - 1	=4x+2	2			5x - 4	= 4 - 3x	<u> </u>				
2:	x + 4 + 3					4x - 5	+ x = 7	-x				
		4 = 13 4 - 4										
	3	x = 9			10							
	3	$\frac{x}{x} = \frac{9}{2}$	2x 2(3) +	+ 4 + x = 4 + (3)	= 13 = 13							
		ى 	_(0)	13	= 13 = 13 = 13 \int \int							
		x = 3										
	4. 0	0 -	10 0	24 . 2	4	2^	: = 2 + 1	1r _ 6	_	0	0	
	4x + 3 3x + 2	= 3x + 7 $= 2x + 7$	12 3	2x + 2 = 2x - 8 =	6 + x $4 - 4x$	-3x $5x -$	+2x+6	+ 1 = 0		c + 3 = -4 $c + 3 = 2$		
			2	2x - 3 =	8x - 12	4 <i>x</i> -	- 5 + <i>x</i> =	7-x	J <u>1</u> /	5 2		

Five mor	e than a nu	umber is s	seven.					
							number and 17 is eased by 13 is 51. number is 71.	65.
A numbe	er decrease	ed by eigh	nt is ten.			21 less than the The difference b And number mi	number is 37. Detween x and 5 is nus 11 is 76	
A numbe	er subtract	ed from s	even is fi	ive.		The difference b	etween x and 2 is	
Two time	es a numb	er plus 6 e	equals 18		The produ Five less th	ct of a number and an nine times a nu	seven added to the mber is 148.	
				L	73 exceeu	three times the m	amber by 24.	
	A numbe	A number subtract	A number subtracted from s		A number subtracted from seven is five. Two times a number plus 6 equals 18.	A number subtracted from seven is five. Two times a number plus 6 equals 18. A number in the product Five less the seven is five.	A number subtracted from seven is five. A number subtracted from seven is five. 39 decreased by The difference be The	21 less than the number is 37. The difference between x and 5 is And number minus 11 is 76. A number less than three is one. 39 decreased by a number is 12. The difference between x and 2 is The difference between x and 13 i

M8 -	10.9 -	- Crea	ting/	Solvi	ng Equ	uatior	is HW	1		
					ve the equa		the numb	er, circle	your	
answer, c	neck your	answer,	state the	number	in a senten	ce.			_	
Three tir	mes a num	nber less t	han 12 is		Seven time 17 decreas					
					One quarte					
Twice th	e sum of t	the numb	er and fiv	e is 30.	Triple the	differenc	e of a nur	nber and	two is 18.	
					Half the s The sum	um of the	number	and five is	20.	
	he sum of e equals fo				e than one ds of a num					
	imes the r				the number					

Two num	bers sum	to 24. The	Tw	o number	s sum to	44. The 2r	nd is one l	ess than t	wice the	1st.	
		an the 1st.		o number							
					TI 1'66						
Twice t	he sum of	ess than and the first nu iple the sec	ımber aı	nd			tween tw equals qua			* .	

M8 -	10.9 -	2/3	Numl	oer/C	onsec	utive	Equa	tions	HW		
					e the equ s in a sent		the num	bers, circl	e your		
	of three n he 1st. The				st. r	The sum of number is one more t	triple the	1st. The 3	Brd numb	_	
					r	The sum of number is Brd numbe	two less t	han triple	the 1st.		
The sum	of two co	onsecutiv	e number	rs is five.		he sum of he sum of					
									_		
The sum numbers	of three c is 51.	onsecutiv	/e			of three co				ive 6	

M8 - 10.9 - 2/3 Numb	per/Consecutive Equations HW
Write a let statements, create an equa answers, check your answers, state the	ition, solve the equation, find the numbers, circle your e numbers in a sentence.
Find two consecutive even integers whose sum is 14.	Find two consecutive even integers whose sum is 26. Find two consecutive odd integers whose sum is 28.
Find three consecutive integers such that five more than triple the 1st is six more than double the 3rd.	Find four consecutive integers such that the 2nd and the 4th is 114.
	Find three consecutive integers such if that you doubled the sum it would equal 72.
Find three consecutive integers such that the sum decreased by the second integer equals 32.	Find three consecutive integers such that twice the sum minus triple the third equals 6. Find four consecutive integers such that the sum of the
	1st and the 4th equals the sum of the 2nd and the 3rd**.

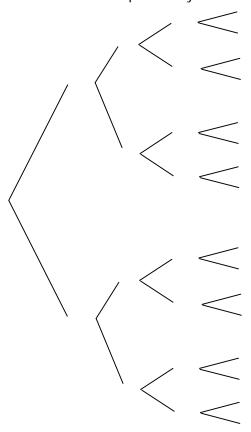
Write let statements, cre answers, check your ansv		ers in a sentence.
Two years less than Bob's than double his age.	s age is 22 less	Three years more than twice Amanda's age is seven less than triple her age.
		Five more than Pat's age is 15 less than double Pat's age.
A year ago Bob was one his age 5 years ago.	less than twice	Two years from now Alex is twice his age.
		Twice Kiera's age in five years from now is 10 less than triple her age now.

M8 - 11.1 - Probability of Independent Events HW

What is the probability of drawing a queen from a deck of cards?
What is the probability of getting tails from flipping a coin?
What is the probability of rolling a six-sided die and getting a two?
What is the probability of randomly drawing a red marble from a bag 3 red marbles and 2 blue marbles?
What is the sample space of flipping a coin?
What is the sample space of taking a marble out of a bag of red marbles and blue marbles?

M8 - 11.1 - Probability HW

- 1. Anakin flips a coin four times. Fill in the tree diagram for each possible outcome.
 - a. What is the probability he gets heads four times in a row?
 - **b.** What is the probability that he rolls two heads and two tails in any order?



- 2. Luke has two standard six-sided dice. One die is light and the other is dark.
 - **a.** When he rolls both die, what is the probability of rolling a sum greater than 8?
 - **b.** What is the probability that the number on the light die is greater than the number on the dark die?
 - **c.** What is the probability that the sum of the numbers is less than 10?

Light Die

	1	2	3	4	5	6
1						
2						
3						
4						
5						
6						

$$P(sum > 8) =$$

$$P(L > D) =$$

$$P(sum < 10) =$$

M8 - 11.1 - Probability of Independent Events HW

	# of sucessful outcomes
Calculating probabilities	$Probability = \frac{\# of \ sucessful \ outcomes}{\# \ total \ outcomes}$
What is the probability of choosing a queen from a deck of	cards?
What is the probability of choosing a card from a deck that	is less than a 5?
What is the probability of winning a raffle if you purchased	3 tickets and a total of 90 tickets were sold?
What is the probability of choosing a red marble from a baq	g with 6 blue, 4 red and 2 yellow marbles?
Calculating probabilities of independent events.	
What is the probability of getting two heads if two coins are	e tossed?
What is the probability of choosing a spade from a deck of	cards and rolling a 3 on a die?
What is the probability of flipping a tail on a coin and chooscards?	sing the ace of diamonds from a deck of

M8 - 11.1 - Probability of Dependent Events HW

There is a bag of marbles containing 12 blue, 7 red, 1 yellow and 4 green.
What is the probability of choosing 2 blue marbles in a row?
What is the probability of choosing a green marble and then a red marble?
What is the probability of choosing a blue marble and then the yellow marble?
What is the probability of choosing two spades in a row from a deck of cards?
What is the probability of choosing two queens in a row from a deck of cards?

What is the probability of choosing two face cards (J, Q, K, A) in a row?

The End

