M8 - 4.1 - Fractions->Decimals HW

Convert from fractions to decimals.

$\dfrac{1}{10} = 0.1$ $\qquad$ $\dfrac{1}{2} = \dfrac{5}{10} = 0.5$ $\qquad$ $\dfrac{1}{5} =$ $\qquad$ $\dfrac{1}{4} =$ $\qquad$ $\dfrac{2}{5} =$

$\dfrac{3}{20} =$ $\qquad$ $\dfrac{3}{5} =$ $\qquad$ $\dfrac{4}{5} =$ $\qquad$ $\dfrac{3}{4} =$ $\qquad$ $\dfrac{1}{20} =$

$\dfrac{1}{25} =$ $\qquad$ $\dfrac{2}{25} =$ $\qquad$ $\dfrac{3}{25} =$ $\qquad$ $\dfrac{3}{50} =$ $\qquad$ $\dfrac{7}{50} =$

$\dfrac{3}{100} =$ $\qquad$ $\dfrac{3}{1000} =$ $\qquad$ $\dfrac{1}{500} =$ $\qquad$ $\dfrac{303}{1000} =$ $\qquad$ $\dfrac{31}{100} =$

Convert from fractions to repeating decimals.

$\dfrac{1}{9} = 0.\overline{1}$ $\qquad$ $\dfrac{2}{3} =$ $\qquad$ $\dfrac{1}{3} =$ $\qquad$ $\dfrac{1}{6} =$ $\qquad$ $\dfrac{4}{9} =$

$\dfrac{5}{6} =$ $\qquad$ $\dfrac{2}{9} =$ $\qquad$ $\dfrac{7}{9} =$ $\qquad$ $\dfrac{5}{9} =$ $\qquad$ $\dfrac{8}{9} =$

Convert from mixed fractions to decimals.

$1\dfrac{1}{3} = 1 + 0.\overline{3} = 1.\overline{3}$ $\quad$ $2\dfrac{1}{2} =$ $\qquad$ $5\dfrac{1}{5} =$ $\qquad$ $3\dfrac{1}{4} =$ $\qquad$ $4\dfrac{3}{4} =$

$3\dfrac{2}{5} =$ $\qquad$ $5\dfrac{2}{3} =$ $\qquad$ $3\dfrac{1}{9} =$ $\qquad$ $4\dfrac{2}{9} =$

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

$\dfrac{11}{5} = 2\dfrac{1}{5} = 2.2$ $\qquad$ $\dfrac{3}{2} =$ $\qquad$ $\dfrac{5}{2} =$ $\qquad$ $\dfrac{7}{2} =$ $\qquad$ $\dfrac{9}{2} =$

$\dfrac{4}{3} =$ $\qquad$ $\dfrac{5}{3} =$ $\qquad$ $\dfrac{7}{3} =$ $\qquad$ $\dfrac{8}{3} =$ $\qquad$ $\dfrac{5}{4} =$

$\dfrac{7}{6} =$ $\qquad$ $\dfrac{7}{4} =$ $\qquad$ $\dfrac{9}{4} =$ $\qquad$ $\dfrac{8}{5} =$ $\qquad$ $\dfrac{7}{5} =$

$\dfrac{10}{9} =$ $\qquad$ $\dfrac{9}{5} =$ $\qquad$ $\dfrac{6}{5} =$

M8 - 4.1 - Fractions->Decimals HW

Convert from fractions to decimals using long division or your calculator, to three decimal places.

$\dfrac{1}{6} = 0.1\overline{6}$

$\dfrac{1}{8} = 0.125$

$\dfrac{7}{8} =$

$\dfrac{2}{11} =$

$\dfrac{5}{6} =$

$\dfrac{5}{7} =$

$\dfrac{5}{8} =$

$\dfrac{3}{11} =$

$\dfrac{3}{7} =$

$\dfrac{6}{7} =$

$\dfrac{1}{11} =$

$\dfrac{4}{7} =$

$\dfrac{3}{8} =$

$\dfrac{1}{7} =$

$\dfrac{2}{7} =$

$\dfrac{8}{7} =$

$\dfrac{9}{7} =$

$\dfrac{10}{7} =$

M8 - 4.1 - Decimals->Fractions HW

Convert from decimals to fractions

$0.1 = \dfrac{1}{10}$ $0.5 = \dfrac{5}{10} = \dfrac{1}{2}$ $0.2 =$ $0.25 =$ $0.4 =$

$0.15 =$ $0.6 =$ $0.8 =$ $0.75 =$ $0.05 =$

$0.04 =$ $0.08 =$ $0.12 =$ $0.06 =$ $0.14 =$

$0.03 =$ $0.003 =$ $0.002 =$ $0.303 =$ $0.31 =$

Convert from repeating decimals to fractions.

$0.\overline{1} = \dfrac{1}{9}$ $0.\overline{6} =$ $0.\overline{3} =$ $0.1\overline{6} =$ $0.\overline{4} =$

$0.8\overline{3} =$ $0.\overline{2} =$ $0.\overline{7} =$ $0.\overline{5} =$ $0.\overline{8} =$

Convert from decimals to mixed fractions.

$1.\overline{3} = 1\dfrac{1}{3}$ $2.5 =$ $5.2 =$ $3.25 =$ $3.4 =$

$5.\overline{6} =$ $3.\overline{1} =$ $4.\overline{2} =$ $4.75 =$

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

$2.2 =$ $1.5 =$ $2.5 =$ $3.5 =$ $4.5 =$

$1.\overline{3} =$ $1.\overline{6} =$ $2.\overline{3} =$ $2.\overline{6} =$ $1.25 =$

$1.1\overline{6} =$ $1.75 =$ $2.25 =$ $1.6 =$ $1.2 =$

$1.4 =$ $1.\overline{1} =$ $1.8 =$

M8 - 4.1 - Decimals->% HW

Convert from decimals to percentages.

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 repeating decimals to repeating percentages.

$0.\bar{1}$ =	$0.\bar{6}$ =	$0.\bar{3}$ =	$0.1\bar{6}$ =	$0.\bar{4}$ =
$0.8\bar{3}$ =	$0.\bar{2}$ =	$0.\bar{7}$ =	$0.\bar{5}$ =	$0.\bar{8}$ =
$5.\bar{6}$ =	$3.\bar{1}$ =	$4.\bar{2}$ =	$2.\bar{6}$ =	$2.\bar{3}$ =
$1.\bar{6}$ =	$1.1\bar{6}$ =	$1.\bar{3}$ =	$1.\bar{1}$ =	$1.\bar{3}$ =

Convert from decimals 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 - %->Decimals HW

Convert from a percentage to a decimal.

$10\% = 0.1$	$60\% = 0.6$	$20\% =$	$80\% =$
$50\% =$	$30\% =$	$70\% =$	$40\% =$
$90\% =$	$25\% =$	$75\% =$	$89\% =$
$15\% =$	$32\% =$	$62\% =$	$45\% =$
$11.\overline{1}\% =$	$77.\overline{7}\% =$	$33.\overline{3}\% =$	$88.\overline{8}\% =$
$55.\overline{5}\% =$	$22.\overline{2}\% =$	$66.\overline{6}\% =$	$44.\overline{4}\%$
$150\% =$	$120\% =$	$125\% =$	$225\% =$
$1000\% =$	$570\% =$	$1200\% =$	$1250\% =$
$1\% =$	$2\% =$	$5\% =$	$0.3\% =$
$0.5\% =$	$0.\overline{6}\% =$	$9\% =$	$7\% =$
$14\frac{1}{2}\% =$	$128.7\% =$	$25.2\% =$	$130.4\% =$

M8 - 4.1 - Fractions->% HW

Convert from fractions to percentages.

$\dfrac{4}{5} = \dfrac{80}{100} = 0.8 = 80\%$ $\dfrac{1}{5} = \dfrac{2}{10} = 0.2 = 20\%$ $\dfrac{2}{25} =$

$\dfrac{3}{20} =$ $\dfrac{31}{100} =$ $\dfrac{1}{2} =$

$\dfrac{1}{25} =$ $\dfrac{3}{5} =$ $\dfrac{3}{25} =$

$\dfrac{1}{10} =$ $\dfrac{303}{1000} =$ $\dfrac{1}{500} =$

$\dfrac{2}{5} =$ $\dfrac{3}{1000} =$ $\dfrac{3}{50} =$

$\dfrac{7}{50} =$ $\dfrac{1}{4} =$ $\dfrac{3}{4} =$

$\dfrac{1}{20} =$ $\dfrac{3}{100} =$

Convert from fractions to repeating percentages.

$\dfrac{5}{9} =$ $\dfrac{2}{3} =$ $\dfrac{1}{3} =$ $\dfrac{1}{6} =$ $\dfrac{2}{9} =$

$\dfrac{5}{6} =$ $\dfrac{7}{9} =$ $\dfrac{1}{9} =$ $\dfrac{4}{9} =$ $\dfrac{8}{9} =$

Convert from mixed fractions to percentages.

$4\dfrac{3}{4} =$ $2\dfrac{1}{2} =$ $5\dfrac{2}{3} =$ $3\dfrac{1}{4} =$ $3\dfrac{1}{9} =$

$1\dfrac{1}{3} =$ $3\dfrac{2}{5} =$ $4\dfrac{2}{9} =$ $5\dfrac{1}{5} =$

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

$\dfrac{9}{4} =$ $\dfrac{5}{2} =$ $\dfrac{9}{5} =$ $\dfrac{7}{2} =$ $\dfrac{6}{5} =$

$\dfrac{4}{3} =$ $\dfrac{5}{3} =$ $\dfrac{7}{6} =$ $\dfrac{8}{3} =$ $\dfrac{7}{4} =$

$\dfrac{5}{4} =$ $\dfrac{3}{2} =$ $\dfrac{7}{5} =$ $\dfrac{11}{5} =$ $\dfrac{9}{2} =$

$\dfrac{10}{9} =$ $\dfrac{7}{3} =$ $\dfrac{8}{5} =$

M8 - 4.1 - %->Fractions HW

Convert from a percentage 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% =	570% =	1200% =	1250% =

Express as a fraction over 9.

$11.\bar{1}\% =$	$22.\bar{2}\% =$	$33.\bar{3}\% =$	$44.\bar{4}\%$
$55.\bar{5}\% =$	$66.\bar{6}\% =$	$77.\bar{7}\% =$	$88.\bar{8}\% =$

Express as a fraction over 6.

16.66% =	33.33% =	50% =	66.66% =
83.33% =			

Express as a fraction over 3.

33.33% =	66.66% =

M8 - 4.2 - "is" over "of" = ?% over 100 HW

Calculate the following percentages.

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?**

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?**

M8 - 4.2 - % "of" = "?is" HW

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 12% of 15?

What is 4% of 2?

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?

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?

M8 - 4.2 - Tax/Discount Word Problems Hard HW

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 a 25% discount on a $200 phone with no tax?

What is the cost of a 25% discount on a $200 phone with 12% tax?

A 5% discount on a computer is $190. How much was the original cost?

After a 12% tax, the price of a T.V is $297. What was the original cost?

Nick ate 3 more hotdogs than Bill which was 30% more. How many total hotdogs did they eat?