M8 - 4.1 - Fractions->Decimals HW

Convert from fractions to decimals.

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

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

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

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

Convert from fractions to repeating decimals.

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

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

Convert from mixed fractions to decimals.

$1\dfrac{1}{3} = 1 + 0.\bar{3} = 1.\bar{3}$ $2\dfrac{1}{2} =$ $5\dfrac{1}{5} =$ $3\dfrac{1}{4} =$ $4\dfrac{3}{4} =$

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

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

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

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

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

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

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

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

$0.15 =$ $\qquad$ $0.6 =$ $\qquad$ $0.8 =$ $\qquad$ $0.75 =$ $\qquad$ $0.05 =$

$0.04 =$ $\qquad$ $0.08 =$ $\qquad$ $0.12 =$ $\qquad$ $0.06 =$ $\qquad$ $0.14 =$

$0.03 =$ $\qquad$ $0.003 =$ $\qquad$ $0.002 =$ $\qquad$ $0.303 =$ $\qquad$ $0.31 =$

Convert from repeating decimals to fractions.

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

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

Convert from decimals to mixed fractions.

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

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

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

$2.2 =$ $\qquad$ $1.5 =$ $\qquad$ $2.5 =$ $\qquad$ $3.5 =$ $\qquad$ $4.5 =$

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

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

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

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.

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

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% =