

A hand-drawn banner with a wavy bottom edge, containing the text:

Math Review
Day 1
5/2/08

1) Adding, Subtracting
Multiplying and Dividing
a) Whole numbers

multiplying

$$\begin{array}{r} \overset{2}{\cancel{3}} 2 \\ 364 \\ \times 268 \\ \hline 2912 \\ 21840 \\ \hline 22800 \\ 97552 \end{array}$$

Dividing R 8

$$\begin{array}{r}
 \cancel{4} \\
 38 \overline{) 26,798} \\
 \underline{266} \\
 198 \\
 \underline{190} \\
 8
 \end{array}$$

$705 \frac{8}{38}$
 $705 \frac{4}{19}$

b) Fractions

Division $\frac{2}{3} \div \frac{8}{9} =$

take reciprocal
of what you are
dividing by

$$\frac{2}{3} \times \frac{9}{8} = \frac{18}{24} = \frac{3}{4}$$

adding

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

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

$$\frac{21}{28} + \frac{12}{28} = \frac{33}{28} = 1 \frac{5}{28}$$

$$28 \overline{) 33} \\ \underline{28} \\ 5$$

improper
↓
proper

$$1 \frac{5}{28}$$

way 1

$$\frac{64}{29} = \frac{1 \ 64}{-29} \quad 2 \frac{6}{29}$$

$$\begin{array}{r} 2 \ 35 \\ - 29 \\ \hline 6 \end{array}$$

way 2

$$\frac{64}{29} = \frac{1 \ 2 \ 64}{29 \overline{) 64}} \rightarrow 2 \frac{6}{29} = 2 \frac{6}{29}$$

$$\begin{array}{r} 2 \\ 29 \overline{) 64} \\ \underline{58} \\ 6 \end{array}$$

subtraction

$$\frac{3}{3} \frac{3}{4} - \frac{2}{3} \frac{4}{4}$$

$$\frac{9}{12} - \frac{8}{12} = \frac{1}{12}$$

c) Mixed Number

$$16\frac{2}{3} \quad \frac{50}{3}$$

~~$$2\frac{2}{3} \times 3\frac{1}{8} = 6\frac{2}{24} \quad 6\frac{1}{12}$$~~

$$\frac{8}{3} \times \frac{25}{8} = \frac{200}{24} = 8\frac{1}{3}$$

d) Decimals

adding $2.34 + 283.92 =$

$$\begin{array}{r} 2.34 \\ 283.92 \\ \hline 286.26 \end{array}$$

subtraction

$$286.93 - .301 =$$

$$\begin{array}{r} 286.9\overset{2}{3}\overset{1}{0} \\ - 000.301 \\ \hline 286.629 \end{array}$$

-

multiplication

$$\begin{array}{r} .23 \times 22.6 = \\ \\ 22.6 \\ \\ \hline .23 \\ \hline 1678 \\ 4520 \\ \hline 5.198 \end{array}$$

division

$$3 \overline{) 9.9}$$

33

$$9.9 \div .3$$

$$3 \overline{) 9.9}$$

$$3 \overline{) 9.9}$$

/

$$300 \overline{) 900}$$

e) percentages

$$9\% + 32\%$$

$$\frac{9}{100} + \frac{32}{100} = \frac{41}{100} = 41\%$$

$$9\% \times 32\% = 288\%$$

$$\frac{9}{100} \times \frac{32}{100} = \frac{288}{10,000}$$
$$\frac{2.88}{100} = 2.88\%$$

$$40\% \div 20\%$$

$$\frac{40}{100} \div \frac{20}{100}$$

$$\frac{40}{100} \times \frac{100}{20} =$$

$$\frac{4}{10} \times \frac{5}{1} = \frac{20}{10}$$

$$\begin{array}{r} 10 \overline{) 20} \\ \underline{20} \\ 0 \end{array}$$

1) $2 + 2 =$

2) $3 - 2 =$

3) $3694 \times 29,884 =$

4) $6,429 \div 36 =$

5) $\frac{3}{4} + \frac{2}{3} + \frac{1}{5} =$

6) $\frac{4}{9} - \frac{2}{3} =$

7) $\frac{2}{8} \times \frac{9}{10}$

8) $\frac{3}{4} \div \frac{3}{8}$

9) $8\frac{3}{9} + 4\frac{5}{8}$

10) $3.491 + .9334$

11) $8.619 - .389$

12) $.681 \times 22.3$

13) $.46 \div .23$

14) $28\% \times 46\%$

15) $28\% \div 12\%$