

1) Label the three parts of the common fraction shown below:

$\frac{5}{8}$

Numerator (top), Fraction Bar (middle), Denominator (bottom)

2) Using different numbers, list three equivalent fractions for each of the fractions listed:

$1/6 = 2/12, 3/18, 4/24$

$3/5 = 6/10, 9/15, 12/20$

$5/2 = 10/4, 15/6, 20/8$

3) In the list of fractions below, circle those that are in simplest form; rename in simplest form those that are not:

$3/9 = 1/3$ $\frac{3}{10}$ $\frac{1}{2}$
 $6/8 = 3/4$ $\frac{2}{15}$ $\frac{6}{1}$ or 6
 $10/5 = 2/1$ or 2 $\frac{15}{16}$ $\frac{9}{11}$

4) Solve the following proportions (by making equivalent fractions):

a) $A/6 = 7/42$ $A = 1$
b) $4/B = 9/10$ $B = 4 \frac{4}{9}$
c) $60/5 = C/2$ $C = 24$
d) $5/3 = 4/D$ $D = 2 \frac{2}{5}$

5) Evaluate the problems below:

a) What is $1/6$ of 24? 4
b) 9 is $1/5$ of what? 45
c) What fractional part of 12 is 2? $1/6$
d) Find $2/3$ of 9. 6
e) 12 is $1/3$ of what value? 36
f) 6 is what fractional part of 27? $2/9$

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6) Fill in the chart below

fraction	decimal	percent
$1/5$	0.2	20%
$9/10$	0.9	90%
$2/5$	0.4	40%
$2/3$	0. $\overline{6}$	$66 \frac{2}{3}\%$
$1/4$	0.25	25%
$7/20$	0.35	35%

7) Compare using $<$, $>$, $=$

$5/9 < 5/3$
 $1/10 < 2/5$
 $1/4 = 3/12$
 $1/5 > 1/6$
 $4/3 > 3/4$

8) What fractional part of each shape below is shaded?



$2/4$ or $1/2$



$3/8$

9) Arrange in increasing order:

$8/9, 0/7, 7/14, 12/12, 6/3$
 $0/7, 7/14, 8/9, 12/12, 6/3$

10) Add:

a) $4 + 2 \frac{1}{6} + 3 \frac{5}{6} = 10$
b) $1/2 + 3/4 + 7/8 = 2 \frac{1}{8}$
c) $2 \frac{3}{10} + 3 \frac{2}{5} + 4 \frac{1}{2} = 10 \frac{1}{5}$
d) $1/3 + 2/3 + 3/3 + 4/3 = 3 \frac{1}{3}$

11) Subtract:

a) $6 - 3/4 = 5 \frac{1}{4}$
b) $8 \frac{1}{3} - 4 \frac{3}{5} = 3 \frac{11}{15}$
c) $9 \frac{1}{4} - 8 \frac{1}{4} = 1$
d) $4 \frac{3}{8} - 3 = 1 \frac{3}{8}$

12) Multiply:

a) $2/3 \times 4/5 \times 3/4 \times 1/2 = 1/5$
b) $9 \frac{5}{6} \times 7 \frac{4}{5} \times 0 \frac{0}{3} \times 3 \frac{3}{4} = 0$
c) $3 \frac{1}{2} \times 2 \frac{1}{3} = 8 \frac{1}{6}$
d) $35 \times 2 \frac{2}{5} = 14$

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13) Divide:

a) $7 \div 1/4 = 28$
b) $1/8 \div 1/2 = 1/4$
c) $2 \frac{4}{5} \div 1/5 = 14$
d) $6 \div 1 \frac{1}{2} = 4$

14) How much greater is $2/3$ of 12 than $7/10$ of 10?

1

15) How much less is $1 \frac{1}{2}$ times 6 than $3/4$ of 12?

0

16) What is the probability of choosing a vowel from the word arithmetic when a single letter is selected at random?

$4/10$ or $2/5$

17) Using a fair cubical die, what is the probability of rolling a number less than 6 on your next roll?

$5/6$

18) On the number line, what value is $1/3$ of the distance from 5 to 17?

9

19) Find the average (mean) of :

$2, 1 \frac{1}{6}, 2 \frac{1}{3}, 3 \frac{1}{6}, 3 \frac{0}{3}$

$2 \frac{1}{3}$

20) Optional local question