

1. Change mixed numbers into improper fractions and vice versa:

a)  $28/4 =$

c)  $22 \frac{3}{8} =$

e)  $57/13 =$

h)  $6 \frac{7}{11} =$

b)  $5/5 =$

d)  $2 \frac{3}{4} =$

f)  $52/7 =$

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

g)  $33/3 =$

2. Add/subtract fractions:

a)  $22/10 + 4/10 =$

c)  $6/9 - 1/9 =$

b)  $3/12 + 8/12 =$

d)  $12/8 - 1 =$

3. Add/subtract fractions:

a)  $4/3 - 1/4 =$

g)  $6 \frac{3}{4} - 4/5 =$

b)  $2/2 - 2/5 =$

h)  $9 \frac{3}{5} - 3 \frac{1}{8} =$

c)  $8/11 - 1/2 =$

i)  $5 \frac{3}{12} - 1 \frac{3}{30} =$

d)  $3/4 + 4/8 + 7/8 =$

j)  $6 \frac{14}{28} + 4 \frac{4}{10} =$

e)  $3/5 + 12/30 + 9/15 =$

k)  $2 \frac{3}{15} + 5 \frac{9}{45} =$

f)  $1/8 + 2/4 + 8/64 =$

l)  $3 \frac{2}{8} + 7 \frac{4}{7} =$

4. Reduce simplify fractions:

a)  $7/56 =$

b)  $56/88 =$

c)  $16 / 18 =$

a)  $130/65 =$

b)  $27/72 =$

c)  $33/0 =$

5. Compare fractions  $<$   $>$  or  $=$

a)  $3/2$  \_\_\_\_  $5/12$

b)  $1/7$  \_\_\_\_  $7/10$

c)  $1/9$  \_\_\_\_  $3/8$

d)  $5/11$  \_\_\_\_  $2/4$

e)  $1/16$  \_\_\_\_  $5/80$

f)  $3/9$  \_\_\_\_  $9/27$

g)  $10/11$  \_\_\_\_  $50 / 55$

h)  $1/7$  \_\_\_\_  $3/7$

6. Multiply and divide fractions

a)  $1/2 \times 4/13 =$

b)  $3/30 \times 6/15 =$

c)  $1/7 \times 2/5 =$

h)  $5/10 : 1/3 =$

i)  $2/7 : 3/4 =$

j)  $1/12 : 8/5 =$

d)  $3 \frac{4}{5} \times 4 =$

e)  $2 \frac{3}{3} \times 4 \frac{1}{6} =$

f)  $6/7 \times 3 \frac{4}{9} =$

g)  $12 \frac{8}{17} \times 50/5 =$

k)  $1/2 : 4 \frac{9}{10} =$

l)  $4 \frac{4}{8} : 12 \frac{1}{4} =$

m)  $2/4 : 8 =$

7. Peter earned \$60. He spent  $\frac{1}{3}$  of it on jeans. With the remaining money he got two boxes of candy with \$1.50 each. How much does he have left?

8. Maria ate  $\frac{1}{12}$  of a cake. Bobby ate  $\frac{1}{4}$ . What fraction was left?

9. Craig earns \$7.32 per hour working. If he works Monday-Friday 8 am – 5 pm without a break, how much money will Craig earn after four weeks?

10. Convert Decimal to Fraction and vice versa

$$1.05 =$$

$$\frac{91}{45} =$$

$$0.001 =$$

$$\frac{39}{1} =$$

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

$$0.133 =$$

11. The area of a trapezoid is  $516 \text{ m}^2$  and its height is 24m. If one side is 19m, how long is the other side?

12. The area of a trapezoid is  $162 \text{ cm}^2$  and its height is 12cm. If one side is 10cm, how long is the other side?

13.

a)  $y = 3x + 105$ ;  $x = 5$   $y =$

b)  $y = 3x^2 + 48x$ ;  $x = 24$   $y =$

c)  $y = (230 - 78)x$ ;  $x = 6$   $y =$

d)  $4x + 3(40:8) = y$   $x=5$   $y=$

14. Multiply

a)  $240,000 \times 300 =$

b)  $7 \times 200091 =$

c)  $0.7 \times 120 =$

d)  $\$17.00 \times 0.3$

e)  $\$29.98 \times 20 =$

f)  $\$4.02 \times 8 =$

15. Divide

a)  $582 : 9 =$

b)  $195 : 2 =$

c)  $484 : 2 =$

16. Cynthia wants to buy a round photo frame for her brother. The radius of the photo frame is 9 cm. What is the photo frame's circumference?

17. Fill in the blanks

Math Test 2  
Fractions

<http://www.atreks.com/>

$$\begin{aligned} 1/6 \text{ km} &= \underline{\hspace{2cm}} \text{ dm} \\ 1/5 \text{ L} &= \underline{\hspace{2cm}} \text{ mL} \end{aligned}$$

$$\begin{aligned} 1/5 \text{ dm} &= \underline{\hspace{2cm}} \text{ mm} \\ 1/8 \text{ kg} &= \underline{\hspace{2cm}} \text{ g} \end{aligned}$$

$$\begin{aligned} 1/100 \text{ km} &= \underline{\hspace{2cm}} \text{ cm} \\ 1/5 \text{ cl} &= \underline{\hspace{2cm}} \text{ ml} \end{aligned}$$