

Checklist

- do I have ONE equal sign per line
- did I read the question carefully and answer what was asked
- did I leave my fraction answers in LOWEST Terms
- was I careful when using operations involving negative values

1. Evaluate the following: (K - 10 marks)

(a) $7 - 12 = -5$

(b) $-5 - (-11) = 6$

(c) $(-7)(-4) = +28$

(d) $\frac{(14)(-3)}{(-7)} = +6$

(e) $(-6)^2 = 36$

(f) $-24 \div (-3 + 11) = -3$
8

2. **Solve** for the unknown in each of the following ratio problems: (App - 7 marks)

(a) $m + 12 = 23$

$m = 11$

(b) $\frac{a}{5} = 3$

$a = 15$

(c) $3a = 24$

$a = 8$

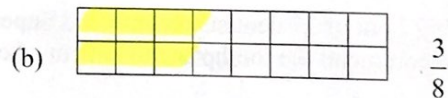
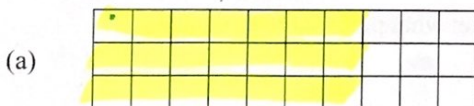
(d) $a - 8 = -19$

$a = -11$

(e) $2a + 12 = 34$

$2a = 22$
 $a = 11$

3. In the following grid, shade in the given fraction amount. (2 marks)



4. Write the following fractions in LOWEST TERMS. (K - 4 marks)

(a) $\frac{6}{10} = \frac{3}{5}$

(b) $\frac{35}{100} = \frac{7}{20}$

(c) $\frac{6}{14} = \frac{3}{7}$

(d) $\frac{6}{15} = \frac{2}{5}$

5. Place the following fractions in order of greatest to smallest - $\frac{3}{8}, \frac{1}{2}, \frac{3}{4}, \frac{7}{16}$ (App - 2 marks)

$\frac{3}{4}, \frac{1}{2}, \frac{7}{16}, \frac{3}{8}$

$$\begin{array}{l} \frac{1}{2} \\ \frac{6}{16} \end{array} \quad \begin{array}{l} \frac{3}{4} \\ \frac{12}{16} \end{array} \quad \begin{array}{l} \frac{3}{8} \\ \frac{7}{16} \end{array}$$

$$\frac{8}{16}$$

6. Find a common denominator and evaluate the following leaving your final answer in **lowest terms**: (K - 10 marks)

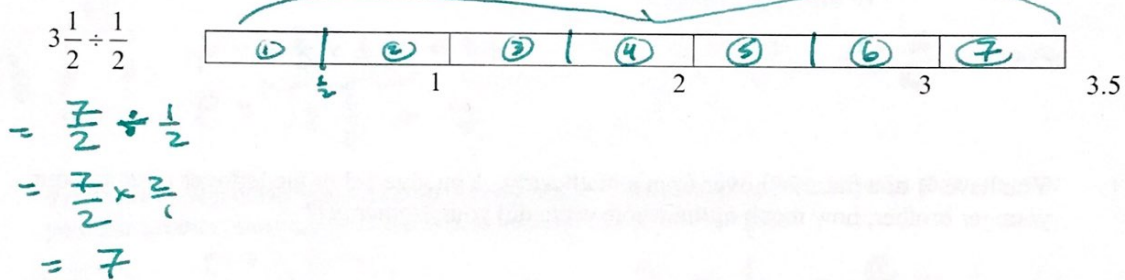
$$(a) \quad \frac{5}{6} + \frac{2}{6} = \frac{7}{6} = 1\frac{1}{6} \quad (b) \quad \frac{3}{4} + \frac{5}{8} = \frac{11}{8} \quad (c) \quad \frac{3}{4} - \frac{1}{8} = \frac{6}{8} - \frac{1}{8}$$

$$= \frac{5}{8}$$

$$(d) \quad 2\frac{1}{2} + 1\frac{3}{4} = \frac{5}{2} + \frac{7}{4} = \frac{10}{4} + \frac{7}{4} = \frac{17}{4} \text{ or } 4\frac{1}{4}$$

$$(e) \quad 4\frac{1}{4} - 1\frac{1}{8} = \frac{17}{4} - \frac{9}{8} = \frac{34}{8} - \frac{9}{8} = \frac{25}{8} \text{ or } 3\frac{1}{8}$$

7. On the strip provided, **illustrate** how many "halves" fit into the entire length. **Verify** your count with **calculations**. (4 marks)



8. Evaluate the following multiplication and division problems leaving your final answer in **lowest terms**: (K - 10 marks)

$$(a) \quad \frac{1}{2} \times \frac{3}{8} = \frac{3}{16} \quad (b) \quad \frac{1}{2} \div \frac{1}{8} = \frac{1}{2} \times \frac{8}{1} = 4$$

$$(c) \quad 3\frac{1}{2} \times \frac{2}{3} = \frac{7}{2} \times \frac{2}{3} = \frac{7}{3}$$

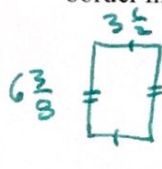
$$(d) \quad 2\frac{5}{8} \times 1\frac{3}{5} = \frac{21}{8} \times \frac{8}{5} = \frac{21}{5} = 4\frac{1}{5}$$

$$(e) \quad 2\frac{3}{4} \div 1\frac{3}{8} = \frac{11}{4} \div \frac{11}{8} = \frac{11}{4} \times \frac{8}{11} = 2$$

9. Fill in the missing values. Be sure to use lowest term fractions. (K – 8 marks)

%	Fraction	Decimal
78%	$\frac{78}{100} = \frac{39}{50}$	0.78
37.5%	$\frac{3}{8}$	0.375
42%	$\frac{42}{100} = \frac{21}{50}$	0.42
3%	$\frac{3}{100}$	0.03

10. Jim was making a birthday card for his friend. He wanted to put a fancy border around the edge of the card. The card dimensions are $3\frac{1}{2}$ inches wide by $6\frac{3}{8}$ inches tall. How much of the fancy border material does Jim need to go around the entire outside of the card? (4 marks)

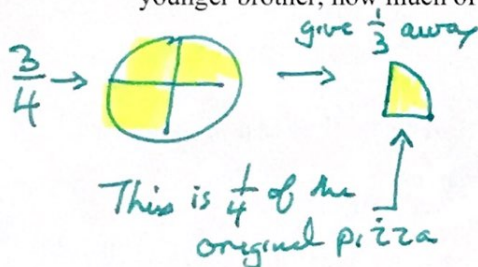


$$P = 6\frac{3}{8} + 6\frac{3}{8} + 3\frac{1}{2} + 3\frac{1}{2}$$

$$P = 12\frac{6}{8} + 7$$

$$P = 19\frac{3}{4} \text{ inches}$$

11. You have $\frac{3}{4}$ of a pizza left over from a math party. You give $\frac{1}{3}$ of the leftover pizza to your younger brother; how much of the whole pizza did your brother get?



OR

$$\frac{3}{4} * \frac{1}{3} = \frac{3}{12}$$

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

12. A new pair of shoes is \$120.00, fortunately for us, they are on sale at 30% off the regular price. What is the total cost of the shoes if we are shopping in Ontario where there is a sales tax of 13%?

original \$120.00

Discount 30%

(120) $\frac{30}{100} = \frac{x}{120}$

\$36 = x (subtract)

New Price

120 - 36 = \$84.00

Tax (13%)

(84) $\frac{13}{100} = \frac{n}{84}$ (84)

\$10.92 = n (add)

Total Cost

84.00 + 10.92

T.C = \$94.92