

1) Make 600 divisible by 3. 3, 6, 9

2) \$12.50 x 10 = 1250

3) 20% of \$35.00 = \$7.00

4) What is 45% written as a decimal? 0.45

5) What type of decimal is 1.32? R

6) How many 1/2 hours in 3 1/2 hours? = 7

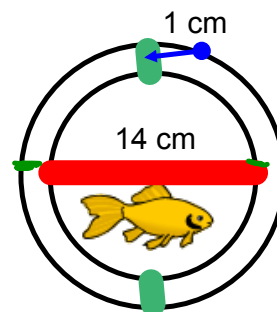
7) (-8) + (-3) = -5

8) Which is greater - 1/4 or 1/3?

9) What is the area?  $\frac{3}{2}$   $\frac{4}{2}$

17-2

10) Write the expression:  
2 less than 7 times a number



$16 \div 2 = 8 \text{ cm}^r$

$\pi r^2$   
 $3(8 \times 8)$   
 $3(64)$   
 $192 \text{ cm}^2$

3. Write an equation you can use to solve each problem. Solve each equation by systematic trial.

a) Ned spent \$36 on a new shuttlecock racquet.

He then had \$45 left.

} How much money did Ned have before he bought the racquet?

$$13n = 208$$

b) Laurie sold 13 books for \$208.

All books had the same price.

What was the price of each book?

$$\frac{208}{n} = 13$$

c) Maurice sorts some dominoes.

He divides them into 15 groups, with 17 dominoes in each group.

How many dominoes does Maurice sort?

$$\frac{17}{n} = 15$$

$$5 + 2n = 37$$
$$n = 16$$

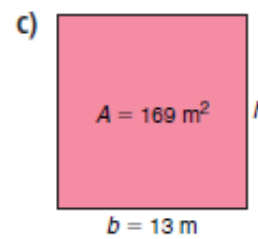
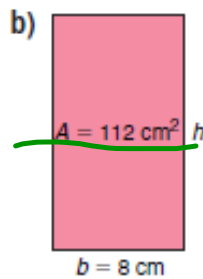
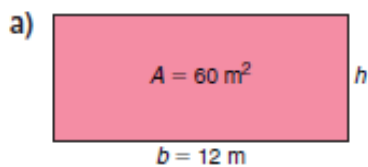
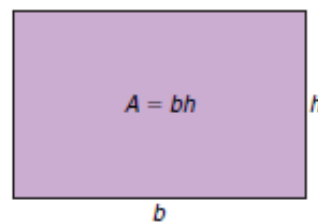
3. a) Write an equation for each sentence.  
b) Solve each equation. Verify the solution.
- i) Five more than a number is 24.
  - ii) Eight more than a number is 32.
  - iii) Three times a number is 42.
  - iv) Five more than two times a number is 37.

$$3n = 42$$
$$n = 14$$

$$5 + n = 24$$
$$n = 19$$

$$8 + n = 32$$
$$n = 24$$

4. The area of a rectangle is  $A = bh$ , where  $b$  is the base of the rectangle and  $h$  is its height. Use this formula for each rectangle below. Substitute for  $A$  and  $b$  to get an equation. Solve the equation for  $h$  to find the height. Show the steps you used to get the answers.



b)  $A = bh$   
 $112 = 8h$   
 $\frac{112}{8} = \frac{8h}{8}$   
 $14 = h$

$A = bh$   
 $\frac{169}{13} = \frac{13h}{13}$   
 $13 = h$

1. a) Sketch balance scales to represent each equation.

b) Solve each equation.

Verify the solution

i)  $x + 7 = 12$   $x = 5$

ii)  $z + 3 = 9$   $z = 6$

iii)  $2y = 8$   $y = 4$

iv)  $4a = 20$   $a = 5$

v)  $2m + 1 = 13$   $m = 6$

vi)  $2p + 3 = 27$   $p = 12$

vii)  $k + k + 7 = 19$   
 $k = 6$

viii)  $5 + 3n = 20$   
 $n = 5$

2. a) Write an equation for each sentence.

b) Solve each equation.

Verify the solution.

i) Seven more than a number is 29.

$7 + n = 29$   
 $n = 22$

$7 + 9 = 23$   
 $7 = 19$

ii) A number increased by nine is 23.

iii) Four times a number is 24.

$4n = 24$   
 $n = 6$

iv) Three more than twice a number is 25.

$2n + 3 = 25$   
 $n = 11$

v) Six more than three times a number is 27.

vi) A number multiplied by twelve is 84.

v)  $6 + 3n = 27$   
 $n = 7$

vi)  $12n = 84$   
 $n = 7$

~~$2k + 7 = 19$~~   
 $2k + 7 = 19$   
 $2k = 12$   
 $\frac{2k}{2} = \frac{12}{2}$   
 $k = 6$

5. Use this equation:  $x + a = 15$

a) What value of  $a$  will give the solution  $x = 9$ ?

b) What value of  $a$  will give the solution  $x = 3$ ?

$\rightarrow a$

$$\begin{aligned} \text{a) } x + a &= 15 \\ 9 + a &= 15 \\ 9 + a - 9 &= 15 - 9 \\ a &= 6 \end{aligned}$$

$$\begin{aligned} \text{b) } x + a &= 15 \\ 3 + a &= 15 \\ 3 + a - 3 &= 15 - 3 \\ a &= 12 \end{aligned}$$

Practise sheets :)

$$\frac{a}{5} = 2$$

$$\frac{a}{2} = 12$$

~~$$\frac{a}{2} = 12 \times 2$$~~

$$a = 24$$

~~$$\frac{a}{4} = 10 \times 4$$~~

$$a = 40$$