

April 29th

5-a-day

Numeracy

12 13 14 15 16 17 18

From the list:
Write down a square number

16

From the list:
Write down a multiple of 9

18

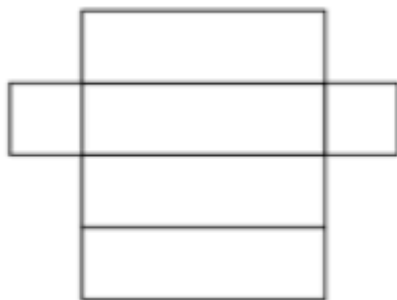
From the list:
the two numbers which are factors
of 36.

12 18

Weekly wage = basic wage + number of cars sold x bonus payment

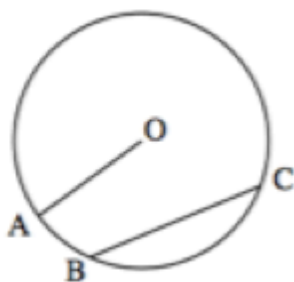
The basic wage is £350 and a bonus of £30 is paid for every car sold.
Mike sold 6 cars. How much was his weekly wage?

$$350 + 6 \times 30$$
$$350 + 180 = \pounds 530$$



This is the net for which solid?

Cuboid



What is the name of the line OA?

Radius

What is the name of the line BC?

Chord

$$\frac{4}{5} \div 3 \quad \frac{4}{5} \div \frac{3}{1}$$

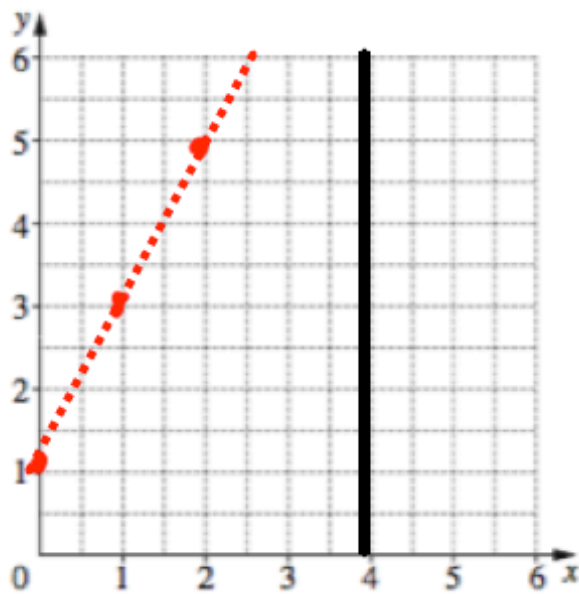
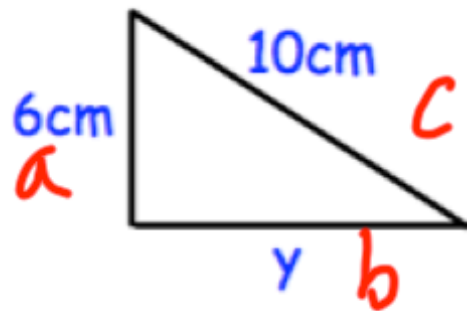
$$\frac{4}{5} \times \frac{1}{3} = \frac{4}{15}$$

Find y

$$6^2 + y^2 = 10^2$$

$$36 + y^2 = 100$$

$$y^2 = 64 \quad y = 8$$

Draw $y = 2x + 1$

$$\begin{array}{r} x \ 10 \ 12 \\ \hline y \ 1 \ 3 \ 5 \end{array}$$

Draw $x = 4$

£400 is invested at 10% interest for two years. How much money will there be after 2 years?

1st year £440
2nd year £484

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Higher

$$2x^3 = 250$$

Find x

$$x^3 = 125$$

$$x = 5$$

Write 150 as a product of primes.

$$150$$

$$= 2 \times 3 \times 5 \times 5$$

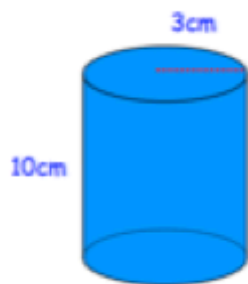
$$= 2 \times 3 \times 5^2$$

Solve

$$a^2 - 14a + 49 = 0$$

$$(a-7)(a-7) = 0$$

$$a = 7$$



Calculate the volume of the cylinder.

$$\pi \times 3^2 \times 10$$

$$\pi \times 90$$

$$= 282.74 \text{ cm}^3$$

There are 10 sweets in a bag.

4 are strawberry

5 are lemon

1 is chocolate

Two sweets are chosen at random

What is the probability both sweets are the different?

$$SS = \frac{4}{10} \times \frac{3}{9} = \frac{12}{90}$$

$$LL = \frac{5}{10} \times \frac{4}{9} = \frac{20}{90}$$

$$1 - \frac{32}{90} = \frac{58}{90}$$

The cost of a trip, c, varies directly to the square root of the number of miles, m.

The cost of a 100 mile trip is £50.

$$c \propto \sqrt{m} \quad c = k\sqrt{m}$$

What is the cost of a 400 mile trip?

$$50 = k \times \sqrt{100}$$

$$k = 5$$

$$c = 5\sqrt{m}$$

$$c = 5 \times \sqrt{400}$$

$$c = \text{£}100$$