

April 30th

5-a-day

Numeracy

1.2 1.6 2.0 2.4 _ _

2.8 3.2

7 6.5 6 5.5 _ _

5 4.5

Double 383

766

Treble 600

1800

Jenny selects a cube from a bag containing 7 red, 1 green and 5 white cubes.

What is the probability she picks a white cube?

$\frac{5}{13}$

What is the probability she picks a red or white cube?

$\frac{12}{13}$

Calculate the perimeter of a rectangle that has length 10cm and width 6cm.

$10+10+6+6$

32cm

Norman thinks of a number.

He doubles it.

Then he adds four.

His answer is 22.

What was his number?

$22-4=18$

$18 \div 2 = 9$

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Foundation

Expand $(x + 4)(x + 2)$

$$x^2 + 6x + 8$$

$$x^2 + 2x + 4x + 8$$

How far would you travel if you travelled for 45 minutes at 30mph?

$$0.75 \times 30 = 22.5 \text{ miles}$$

A car travels 75 miles in 2 hours 30 minutes. Calculate the average speed?

$$\frac{75}{2.5} =$$

Calculate the nth term for:

8, 12, 16, 20

$$4n + 4$$

Using the nth term, work out the 100th term.

$$404$$

Solve $\frac{2y + 1}{3} = 11$

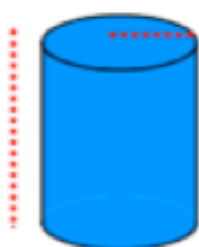
3

$$2y + 1 = 33$$

$$2y = 32$$

$$y = 16$$

5cm



Calculate the volume of this cylinder

$$\pi \times 2^2 = 12.566 \dots$$

$$12.566 \dots \times 5 = 62.8 \text{ cm}^3$$

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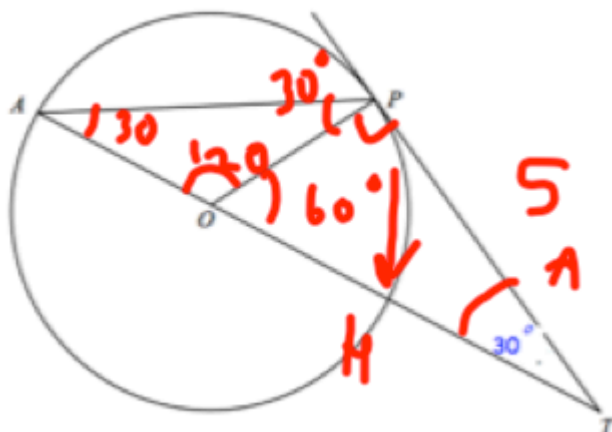
Higher

Expand and simplify

$$(2w + 5)(w - 2)$$

$$2w^2 + w - 10$$

$$2w^2 - 4w + 5w - 10$$



PT is a tangent to the circle.
O is the centre of the circle.

(a) Find angle OPA
 30°

(b) PT is 5cm. Find the length of OT.

$$5 \div \cos 30 = 5.77 \text{ cm}$$

Simplify

$$3\sqrt{5} \times 2\sqrt{3}$$

$$6\sqrt{15}$$

Simplify

$$\frac{x^2 - 16}{3x^2 + 10x - 8}$$

$$\frac{(x-4)(x+4)}{(3x-2)(x+4)}$$

$$\frac{x-4}{3x-2}$$