



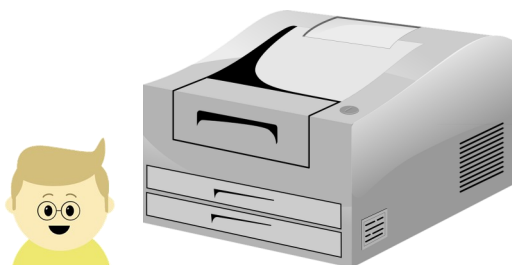
YR6 SATS PREPARATION - THREE A DAY REASONING

REASONING 1

A printer prints at different speeds depending on the type of paper which is used...

Standard A4 Paper - 48 pages per minute

A4 Card - 32 pages per minute

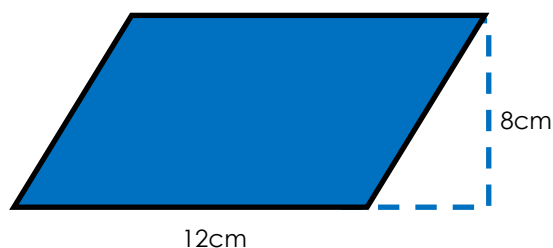


Alfie wishes to print 300 pages on standard A4 paper and 400 pages on A4 card.

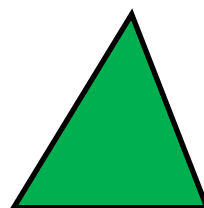
Calculate the time it takes for the printer to complete his printing.

REASONING 2

A triangle's area is a third of the area of a parallelogram.



What could the dimensions of the triangle be?
Write one possibility.



Base

cm

Height

cm

REASONING 3

Tick two numbers which multiply together to make 900,000.

450

20,000

30

2,000

30,000

300



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YR6 SATS PREPARATION - THREE A DAY REASONING **ANSWERS**

REASONING 1 ANSWER

A4 Standard Paper

$$300 \div 48 = 6.25 = 6 \text{ mins and } 15 \text{ secs}$$

A4 Card

$$400 \div 32 = 12.5 = 12 \text{ mins and } 30 \text{ secs}$$

$$6 \text{ mins and } 15 \text{ secs} + 12 \text{ mins and } 30 \text{ secs} \\ = \mathbf{18 \text{ mins and } 45 \text{ secs}}$$

REASONING 2 ANSWER

Area of the parallelogram

$$12\text{cm} \times 8\text{cm} = 96\text{cm}^2$$

Area of triangle

$$96\text{cm}^2 \div 3 = 32\text{cm}^2$$

Side lengths must multiply to give 64.

Possible answers...

1cm and 64cm

2cm and 32cm

4cm and 16cm

8cm and 8cm

REASONING 3 ANSWER

There are two possible answers...

450 and 2,000

or

30 and 30,000

