

March 14th

5-a-day

Numeracy



Nick leaves his house at 1:15pm

He meets his friend 30 minutes later.

1:45 pm

Show what time he met his friend on the clock.

Simplify

$$s + s + s + s$$

4s

Simplify

$$s \times s \times s \times s$$

s^4

Jonny says "When you add an even number to an odd number, you will always get an odd number."

Is Jonny correct?

yes

$$4 + 3 = 7$$

$$8 + 3 = 11$$

$$n + n + 1 = 2n + 1$$

List all the factors of 12

1 2 3 4 6 12

List all the factors of 42

1 2 3 6 7 14 21 42

What is the highest common factor of 12 and 42?

6

Four numbers have a mean of 10.

The first three numbers are 9, 8 and 13.


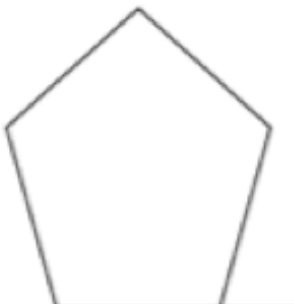
What is the fourth number?

10

add to 40

$$9 + 8 + 13 = 30$$

$$40 - 30 = 10$$

March 14th	5-a-day	Foundation
<p>Draw a parallelogram</p> 	<p>Using a ruler to help, calculate its area.</p> <p>Measure base and height and multiply them.</p> <p>Include units, prob cm^2</p>	
<p>How far would you travel if you travelled for 90 minutes at 50mph?</p> <p>1 hour 30 mins $1.5 \times 50 = 75$ miles</p>	<p>A car travels 300 miles in 6 hours. Calculate the average speed?</p> <p>$300 \div 6 = 50$ mph</p>	
	<p>What is the sum of interior angles for a regular pentagon?</p> <p>540</p> <p>What is the sum of the exterior angles for a regular pentagon?</p> <p>360</p>	
<p>Calculate the size of each interior angle</p> <p>$540 \div 5 = 108^\circ$</p>	<p>Calculate the size of each exterior angle</p> <p>$360 \div 5 = 72^\circ$</p>	
<p>Work out</p> $\frac{\frac{1}{8} + \frac{1}{2}}{\frac{5}{6}}$ <p>$\frac{1}{8} + \frac{4}{8} = \frac{5}{8}$</p>	<p>$\frac{5}{8} \div \frac{5}{6} = \frac{5}{8} \times \frac{6}{5}$</p> <p>$= \frac{30}{40} = \frac{3}{4}$</p>	

What is the reciprocal of

$$2\frac{1}{2} = \frac{5}{2}$$

$$\frac{2}{5}$$

Factorise

$$x^2 + 4x - 12$$

$$(x - 2)(x + 6)$$

150 people audition for a musical. There are 100 women. The probability a woman gets a part is 0.35 and the probability a man gets a part is 0.4.

How many people are in the musical?

$$0.35 \times 100 = 35$$

$$0.4 \times 50 = 20$$

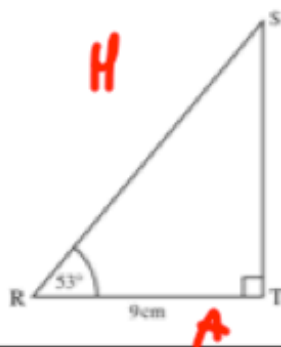
$$55$$

Given $c = \sqrt{3}$
 $d = \sqrt{10}$
 $e = \sqrt{2}$

Work out $\frac{cd}{e}$

$$\frac{\sqrt{3} \times \sqrt{10}}{\sqrt{2}} = \frac{\sqrt{30}}{\sqrt{2}}$$

$$= \sqrt{15}$$



Calculate the length of the line RS

$$\cos 33 = \frac{9}{H}$$

$$H = \frac{9}{\cos 33} = 14.95 \text{ cm}$$