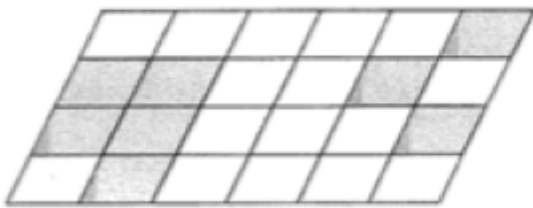


January 28th

5-a-day

Numeracy



What fraction of the parallelogram is shaded?

$$\frac{8}{24} = \frac{1}{3}$$

Write down a number between 30 and 50 that is divisible by both 3 and 5.

45

15 mins 1hr 20 mins

Anne-Marie watched television from 5:45pm until 7:20pm.

5:45 6:00 7:20

How long did she spend watching television?

1hr 35 mins

Charlotte got 19 out of 25 in a test.

What percentage did she get correct?

$$\frac{19}{25} = \frac{76}{100} = 76\%$$

Handwritten diagram showing the conversion of the fraction 19/25 to 76/100. An arrow labeled 'x4' points from 19 to 76, and another arrow labeled 'x4' points from 25 to 100.

A red light flashes every 4 seconds.

A blue light flashes every 9 seconds.

They have both just flashed at the same time.

How long until they both flash again at the same time?

4 8 12 16 20 24 28 32 (36)

9 18 27 (36)

Handwritten diagram showing two rows of multiples. The first row contains multiples of 4 up to 32, with 36 circled. The second row contains multiples of 9 up to 27, with 36 circled.

Make w the subject of:

$$w - a = g$$

$$+a \quad +a$$

$$w = g + a$$

$$\text{or}$$

$$w = a + g$$

Calculate the n th term for

2, 7, 12, 17, 22

$$5n - 3$$

Using the n th term, work out the 100th term

497

Solve $\frac{x}{2} - 3 = 7$

$$\frac{x}{2} = 10$$

$$x = 20$$

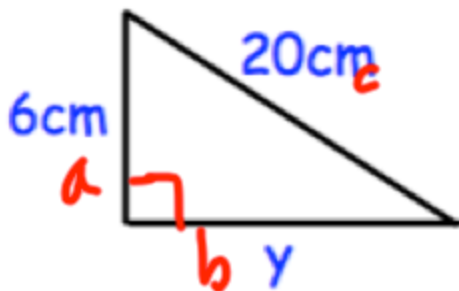
Estimate 87.8×2.1

0.199

$$\approx \frac{90 \times 2}{0.2} = \frac{180}{0.2} =$$

$$\frac{1800}{2}$$

900



Find y

$$a^2 + b^2 = c^2$$

$$6^2 + y^2 = 20^2$$

$$36 + y^2 = 400$$

$$y^2 = 364$$

$$y = 19.08 \text{ cm}$$

January 28

5-a-day

Higher

Write 290 as a product of primes

$$10 \times 29$$

$$2 \times 5$$

$$2 \times 5 \times 29$$

Factorise $2y^2 + 5y + 3$

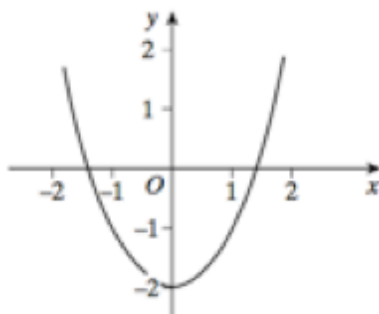
$$(2y+3)(y+1)$$

Find the equation of the straight line passing through the point (0, 6) which is perpendicular to the line

$$y = 3x + 1$$

$$m = -\frac{1}{3}$$

$$y = -\frac{1}{3}x + 6$$

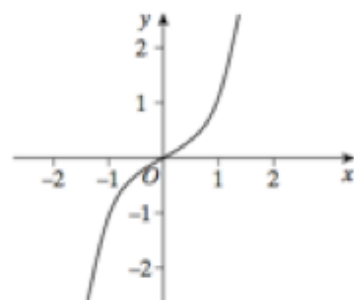


Circle the correct equation

$$y = x^2 - 2$$

$$y = x^3 - 2$$

$$x^2 + y^2 = 2$$



Circle the correct equation

$$y = x^2$$

$$y = x^3$$

$$x^2 + y^2 = 25$$