Jude and Jake share some prize money in the ratio 3:7. If Jake gets £28 more than Jude, how much money does Jude get?

Card 2

Two fair dice are rolled and the difference score is the higher of the two numbers

	1	2	3	4	5	6
1	1			4		
3		2				
3			3	4		
4			4	4		
5					5	
6		6				6

Work out the probability that the score is 5 or 6

Foundation relay 1

Foundation relay 1

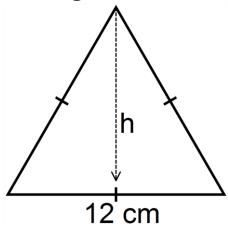
Card 3

Find the nth term of the sequence

11, 15, 19, 23, 27....

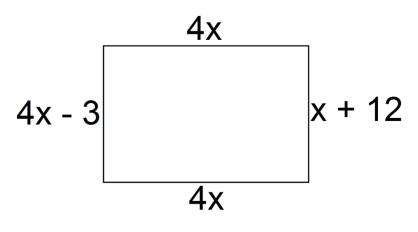
Card 4

Calculate the height of the triangle (2d.p)



Foundation relay 1

Calculate the area of the rectangle



Card 6

A piece of metal has a volume of 80 cm³ and a mass of 400g.

Calculate the density of the metal

foundation relay 1

Card 7

Rana bought a car for £5500 and sold it 1 year later for £4675.

Calculate the percentage loss.

CARD 8

Simplify

a)
$$3y^2 \times 4y^3$$

b)
$$16y^8 \div 2y^4$$

c)
$$(2y^4)^2$$

Foundation relay 1

Foundation relay

CARD 9

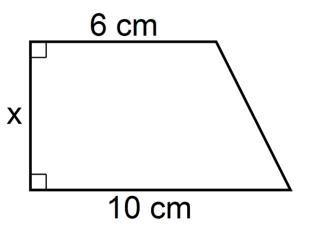
Work out

 $\frac{4}{15} \div \frac{2}{3}$

Foundation relay 1

Card 10

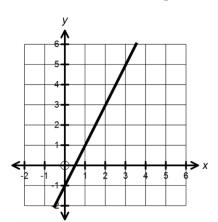
The area of the trapezium is 40 cm^2 . Calculate x



foundation relay 1

Card 11

Find the equation of the straight line



Foundation relay 1

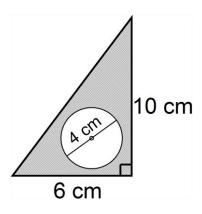
Card 12

Work out

$$\frac{10^2 - 5 \times (2 + 6)}{20 - 2^3}$$

Calculate the shaded area

Answer correct to 2 decimal places



Foundation relay 1

Card 14

- a) Express 24 and 32 as a product of primes
- b) Find the Lowest Common Multiple of 24 and 32

Foundation relay 1

Card 15

Calculate the angles needed to draw a pie chart to represent the following data

Country	Frequency		
France	16		
Spain	14		
Portugal	9		
Belgium	21		

Foundation relay 1

Card 16

Round each of the following to 1 significant figure

- a) 73642
- b) 105911
- c) 15.4998
- d) 0.06824

Make x the subject of the formula

$$w = ax - c$$

Foundation relay 1

Card 18

Factorise and solve

$$x^2 - 2x - 15 = 0$$

Foundation relay 1

Card 19

Solve simultaneously

$$x + 3y = 17$$

$$2x + y = 9$$

Card 20

BBQ 2 GO sells 8 burgers for £2.80

GRILL BAR sells 6 burgers for £2.05

Which shop is better value for money?

Foundation relay 1

Jude and Jake share some prize money in the ratio 3:7. If Jake gets £28 more than Jude, how much money does Jude get? £21

Foundation relay 1

Card 2

Two fair dice are rolled and the difference score is the higher of the two numbers

	1	2	3	4	5	6
1	1	2	თ	4	5	6
2	2	2	3	4	5	6
3	3	3	3	4	5	6
4	4	4	4	4	5	6
5	5	5	5	5	5	6
6	6	6	6	6	6	6

Work out the probability that the score is 5 or 6

$$\frac{20}{36} = \frac{5}{9}$$

Foundation relay 1

Card 3

Find the nth term of the sequence

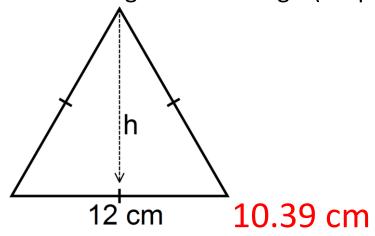
11, 15, 19, 23, 27....

$$4n + 7$$

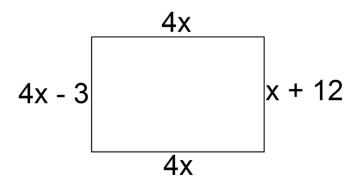
Foundation relay 1

Card 4

Calculate the height of the triangle (2 d.p.)



Calculate the area of the rectangle



$$x = 5$$
 $17 \times 20 = 340 \text{ cm}^2$

foundation relay 1

Card 6

A piece of metal has a volume of 80 cm³ and a mass of 400g.

Calculate the density of the metal 5g/cm³

Foundation Relay 1

Card 7

Rana bought a car for £5500 and sold it 1 year later for £4675.

Calculate the percentage loss.

15%

Card 8

Simplify

a)
$$3y^2 \times 4y^3 \ 12y^5$$

b)
$$16y^8 \div 2y^4 \ 8y^4$$

c)
$$(2y^4)^2 4y^8$$

Foundation relay 1

CARD 9

Work out

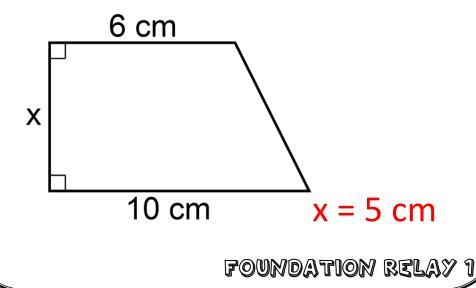
$$\frac{4}{15} \div \frac{2}{3}$$

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

Foundation relay 1

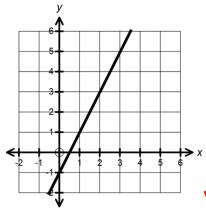


The area of the trapezium is 40 cm^2 . Calculate x



Card 11

Find the equation of the straight line



y = 2x - 1

Foundation relay 1

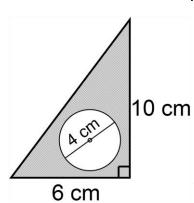
Card 12

Work out

$$\frac{10^2 - 5 \times (2+6)}{20-2^3}$$
 5

Calculate the shaded area

Answer correct to 2 decimal places



17.43 cm²

Foundation Relay 1

Card 14

- a) Express 24 and 32 as a product of primes $24 = 2^3 \times 3$ $32 = 2^5$
- b) Find the Lowest Common Multiple of 24 and 32 $2^5 \times 3 = 96$

Foundation Relay 1

Card 15

Calculate the angles needed to draw a pie chart to represent the following data

Country	Frequency		
France	16 <mark>96°</mark>		
Spain	14 84°		
Portugal	9 54°		
Belgium	21 126°		

Foundation relay 1

Card 16

Round each of the following to 1 significant figure

- a) 73642 **70000**
- b) 105911 100000
- c) 15.4998 20
- d) 0.06824 0.07

Make x the subject of the formula

$$w = ax - c$$

$$\mathbf{x} = \frac{w + c}{a}$$

Foundation relay 1

Card 18

Factorise and solve

$$x^2 - 2x - 15 = 0$$

$$(x - 5)(x + 3) = 0$$
 $x = 5$ $x = -3$

Foundation relay 1

Card 19

Solve simultaneously

$$x + 3y = 17$$

$$2x + y = 9$$

$$x = 2 y = 5$$

Foundation relay 1

Card 20

BBQ 2 GO sells 8 burgers for £2.80

GRILL BAR sells 6 burgers for £2.05

Which shop is better value for money?

BQ 2 GO 24 for £8.40

GRILL BAR 24 for £8.20 BETTER VALUE