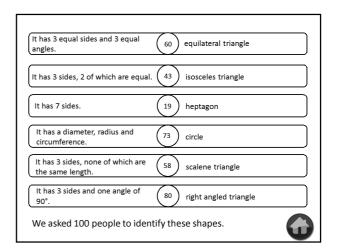
Shapes & Angles It has 4 equal sides and 4 right angles.	(80) square
Terras 4 equal states and 1 right angles.	
It has 4 right angles and 2 pairs of equal and parallel sides.	72 rectangle
It has 1 line of symmetry. 2 pairs of equal adjacent sides.	28 kite
It has 4 equal sides but no right angles. 2 lines of symmetry.	34 rhombus
It has no right angles but 2 pairs of equal and parallel sides.	22 parallelogram
It has just 2 parallel sides.	8 trapezium
We asked 100 people to ider	ntify these quadrilaterals.

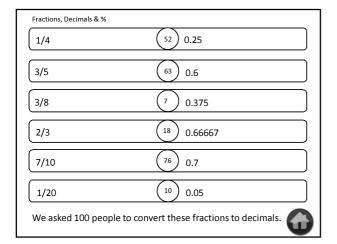
West	(56) 270°	
South East	(41) 135°	
East	(78) 90°	
North West	9 315°	
North East	(62) 45°	
South West	(17) 225°	
We asked 100 people positions was from N	what angle each of these compass orth.	

7 faces, 6 of which are triangles	(10) hexagonal based pyramid
8 vertices, all the faces are rectangles	(53) cuboid
6 identical square faces	80 cube
15 edges, 10 vertices	1 pentagonal prism
All points on the surface are the same distance from the centre	(75) sphere
2 circular faces and one curved face	85 cylinder

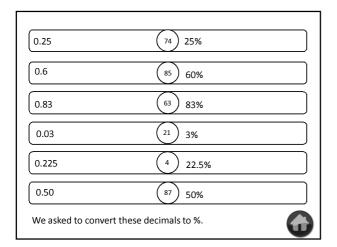


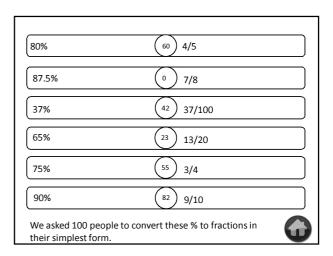
It has 9 sides.	(15) nonagon	
It has 5 interior angles.	62 pentagon	
It has 10 sides.	(34) decagon	_
It has 8 interior angles.	47 octagon	
The total of its interior angles is 900°.	0 heptagon	_
It has 6 sides.	68 hexagon	
We asked 100 people to	identify these shapes.	À

90°	(86) right	
(37°	(72) acute	
181°	(31) reflex	
180°	58 straight	
315°	(34) reflex	
155°	(53) obtuse	
We asked 100 peo angles is.	ple what type of angle each of these	



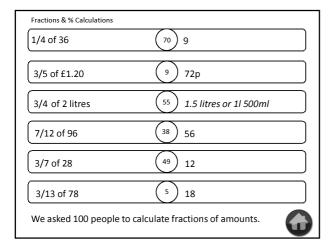
15/20	(81) 3/4	
55/121	(30) 5/11	
3/24	(48) 1/8	
36/42	(32) 6/7	
72/96	15 3/4	
57/95	(3) 3/5	
We asked 100 peop	ole to simplify these fractions.	



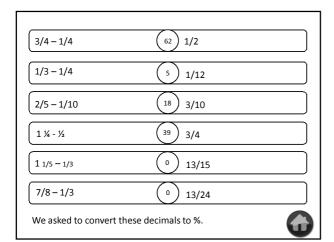


$(1\frac{5}{6})$	(75) 11/6	
$5\frac{1}{2}$	(69) 11/2	
$\left[6\frac{3}{8}\right]$	32 51/8	
$5\frac{4}{7}$	38 39/7	
$\left[12\frac{4}{9}\right]$	7 112/9	
$\left[3\frac{4}{5}\right]$	(57) 19/5	
We asked 100 peopl improper fractions.	e to change these mixed numbers to	

2/3, 3/4, 1/4, 1/10	(56) 1/10 1/4 2/3 3/4
1/3, 1/4, 2/5, 4/7	(18) 1/4 1/3 2/5 4/7
1/3, 2/7, 1/4, 3/8	8 1/4 2/7 1/3 3/8
7/8, 4/5, 5/7, 9/10	9 5/7 4/5 7/8 9/10
1/10, 2/15, 3/32, 4/44	6 4/44 3/32 1/10 2/15
5/20, 6/18, 7/14, 8/40	42 8/40 5/20 6/18 7/14
We asked 100 people to the smallest.	order these fractions starting with



$\left(\frac{1}{2} + \frac{1}{4}\right)$	$\binom{67}{4}$	
$\left(\frac{1}{3} + \frac{1}{4}\right)$	(17) $\frac{7}{12}$	
$1\frac{1}{5} + 2\frac{1}{10}$	(25) $3\frac{3}{10}$	
$\left(\frac{2}{5} + \frac{1}{4}\right)$		
$\left(\frac{5}{6} + \frac{3}{4}\right)$	$\binom{2}{1} \frac{7}{12}$	
$\left(\frac{1}{5} + \frac{1}{3}\right)$	14 $\frac{8}{15}$	
We asked 100 people	e to add these fractions.	

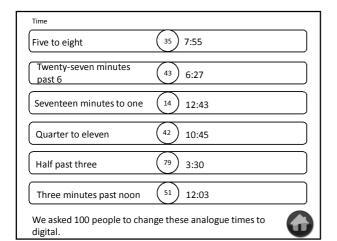


½ x ¼	(43) 1/8	
1/5 x 1/6	(32) 1/30	
2/3 x 1/4	0 1/6	
2/3 x 2/3	8 4/9	
1/7 x 1/8	²⁵ 1/56	
1/3 x 1/2	(35) 1/6	

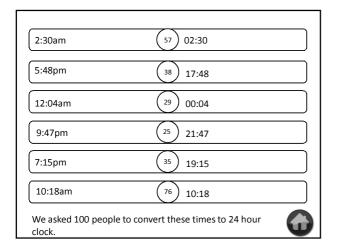
1/6 ÷ 3	(15) 1/18	
1/3 ÷ 2	21) 1/6	
1/2 ÷ 2	(36) 1/4	
2/3 ÷ 3	1 2/9	
1/6 ÷ 4	1/24	
3/7÷ 9	9 1/21	
We asked 100 peop	le to divide these fractions giving the	

answer in the simplest form.

25% of 2 litres	(29) 500 <i>ml</i>
5% of 140	(18) 7
75% of 24	53 18
15% of £2.80	8 £0.42 or 42p
39% of £4	(3) £1.56
1% of 8kg	(16) 80g or 0.08kg
We asked 100 people t	o calculate the % of these amounts.



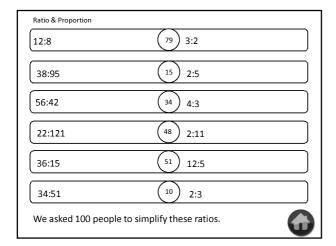
7:46	(21) 14 minutes to eight
10:15	(71) Quarter past 10
2:35	42 25 minutes to 3
11.09	9 minutes past 11
5:37	23 minutes to 6
9:54	25 6 minutes to 10
We asked 100 people t analogue.	to change these digital times to



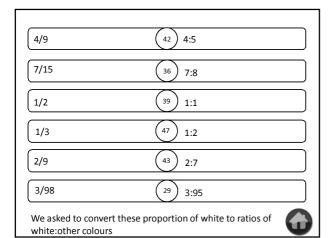
5:40 - 6:25	(59) 45mins
2057 - 0109	7 4hr 12mins
10:15 – 10:50	(76) 35mins
06:37 – 10:29	9 3hr 52mins
5:48 - 6:14	(35) 26mins
2:04 – 4:28	(37) 2hr 24mins
We asked 100 people programmes were.	to work out how long these TV

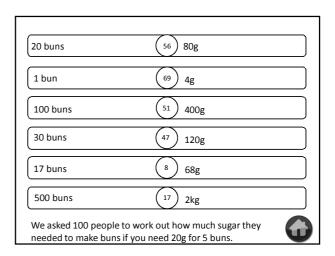
10:17 + 35mins	(51) 10:52	
6:51 + 28mins	(33) 7:19	
8:40 + 90mins	38 10:10	
23:48 + 1hr 16mins	⁹ 0104	
3:25 + 15mins	⁷⁹ 3:40	
2:49 + 6hr 29mins	7 9:18	
We asked 100 people to v finished given its start tim	work out when a TV programme ne and length.	

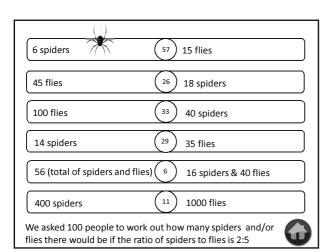
6:15 – 2hr 30mins	44 3:45	
3:18 – 46mins	2:32	
2:45 – 6hrs 57mins	1 7:48	
4:22 – 94mins	(16) 2:48	
10:30 – 15mins	(87) 10:15	
8:50 – 1hr 15mins	(49) 7:35	
We asked 100 people to work out when a TV programme started given its length and finish time.		
started given its length an	id fillion tillic.	



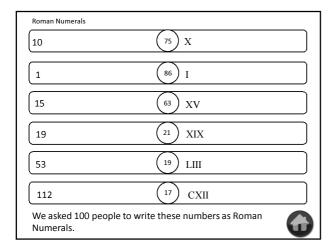
2:7	(53) 2/9	
1:4	(62) 1/5	
3:5:7	7 1/5	
3:5	54 3/8	
2:3:5	9 1/5	
3:7:9	²⁵ 3/19	
We asked 100 peo	ple to change ratios of white:other ion of white.	4



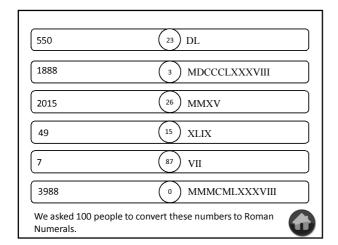


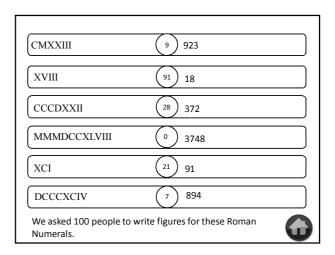


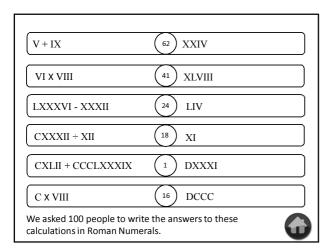
(87) 10m
(52) 75m
6 150cm or 1.5m
²¹ 115m
(27) 80m
(11) 17.5m

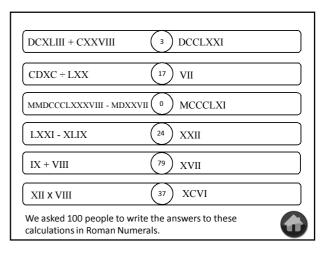


LXXXVIII	4 88	
IX	(70) g	
XXVII	²⁹ 27	
III	89 3	
LXXIV	9 74	
XLI	(18) 41	
We asked 100 peop Numerals.	le to write figures for these Roma	



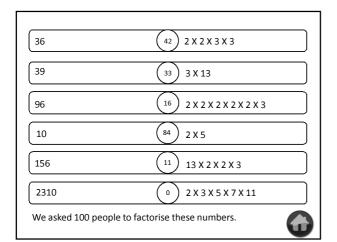


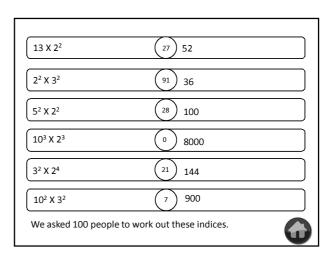




Factors	
16, 24	80 8
96, 72	23 24
63, 84	24 21
144, 40	(16) 8
156, 390	2 78
156, 60	7 12
We asked 100 peop these numbers.	le to find the highest common factors of

4, 3	86) 12
6, 8	70 24
15, 20	(42) 60
12, 20, 15	35 60
78, 182, 130	0 2730
8, 12, 15	18 120
We asked 100 people to f of these numbers.	find the lowest common multiple



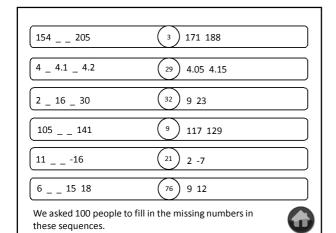


222	2 484
8 ²	(41) 64
42	(59) 16
	(⁷⁹) 4
122	37) 144
100 ²	(35) 10000

√9	82 3	
$\sqrt{49}$	(43) 7	
$\sqrt{121}$	27) 11	
$\sqrt{169}$	5 13	
$\sqrt{36}$	(49) 6	
$\sqrt{256}$	0 16	
We asked 100 peop numbers.	le to find the square root of these	

Number Sequences	
7 5 3 1	31 -1 -3
1 4 16 25	(23) 36 49
3 5 8 12	39 17 23
3 3 8 12	(39) 17 23
0.1 0.2 0.3 0.4	94 0.5 0.6
37 43 49 55	52 61 67
2 4 8 16	(46) 32 64
We asked 100 people to sequences.	o find the next two numbers in these

19 12 6 1	(10) -3 -6
2 3 5 7	7 11 13
2.16 2.11 2.06 2.01	23 1.96 1.91
0 1 1 2	2 3 5
26 28 30 32	79 34 36
2 6 18 54	13 312 936
We asked 100 people to fi these sequences.	nd the next two numbers in



	_	
8 11 14 17	(26) 3n + 5	
0.5 1 1.5 2	(9) 0.5 <i>n</i>	
1 7 13 19	²¹ 6n - 5	
2 4 6 8	(66) 2n	
9 7 5 3	6 -2n + 11	
4 1 -2 -5	$\left(4\right)$ -3n + 7	
We asked 100 people t sequences.	to work out the n^{th} term in these	

9 5 1 -3	5 -47
3 6 9 12	(59) 45
0.4 0.7 1.0 1.3	8 4.6
-4 -7 -10 -13	7 -46
21 30 39 48	0 147
10 15 20 25	48 80
We asked 100 people to sequences.	find the 15 th term in these

1827	(12) 64 125	_]
40 20 10	(39) 5 2.5)
7 _ 23 _ 39	¹⁹ 15 31	
4 8 12	⁷⁹ 16 20	
0.125 0.25 _ 0.5 _	7 0.375 0.625	
3.5 14 _	9 -1.5 -6.5)
We asked 100 people to f sequences.	ind the missing number in these	

Algebra		
x + 1 = 2	$\binom{75}{x} = 1$	
x-4=6	(52) x = 10	
3 + x = 8	(55) x = 5	
$\boxed{-4 + \chi = 8}$	$\binom{21}{x} = 12$	
21 - x = 6	(39) $x = 15$	
3 + x -2 = 5		
We asked 100 people	e to find the value of x.	

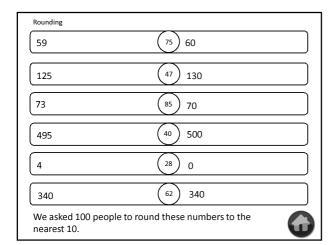
2x = 4	(83) x = 2	
3x = 51	(19) x = 17	
9x = 81	43 x = 9	
6x = 24	64 x = 4	
5x = 75	(28) x = 15	
8x = 48	(52) x = 6	
We asked 100 peopl	e to find the value of x .	

2x + 2 = 4	(69) x = 1	
6x + 5 = 23	(29) x = 3	$\overline{}$
10x - 7 = 83	(33) x = 9	
3x - 6 = 6	(31) x = 4	
$\sqrt{7x-5} = 51$	(25) x = 8	
$\left(\frac{x}{3} = 12\right)$	(15) x = 36	
We asked 100 people	to find the value of x.	

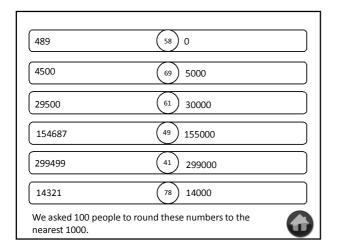
$\boxed{-3x-5}$	x = 3	12 -14	
17x + 8	x = 4	(8) 76	
6x	x = 8	64 48	
3x + 7	x = 6	(41) 25	
19 – 5x	x = 6	22 -11	
x + 3	x = 2	(81) 5	
We asked 10 given x.	00 people to	work out the value of a formula	

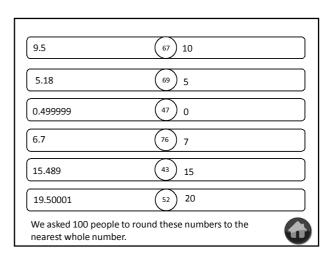
4x – 8y	x = 7, y = 3 (42) 4
6x + 3y	x = 0.5, y = 14 (13) 45
5y – 2x	x = 9, y = 3 (27) -3
8x + 7y	x = 9, y = 7 (32) 121
x + 2y	x = 6, y = 8 (81) 22
3x + 5y	x = 19, y = 16 (5) 137
We asked 10	0 people to work out the value of a formula

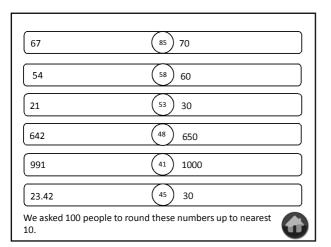
2y - x = 7 $17 > x > 11$	8 x=13, y=10 or x=15, y=11
$3y \times 6x = 72 x > y$	4 x=4, y=1
$4x \times 2y = 48 y < 5, x > y$	(19) x=6, y=1 or x=3, y=2
3x + 4y = 20	(13) x=4, y=2
x + y = 10 $x > 7, y > 0$	(78) x=8, y=2 or x=9, y=1
5x + 6y = 40	12 x=2, y=5
We asked 100 people to find positive whole numbers only	possible values for x and y –



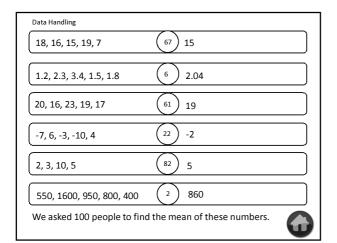
51	61 100	
2929	(45) 2900	
975	39 1000	
349	82 300	
1250	42 1300	
460	79 500	
We asked 100 people nearest 100.	to round these numbers to the	



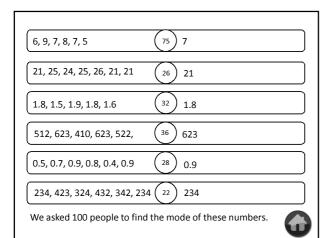


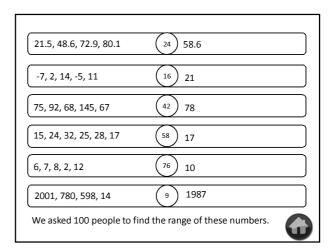


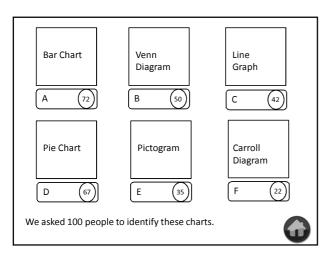
4859361	(40) 4859000
998	(37) O
15951	(48) 15000
5864	(63) 5000
7952	⁵⁹ 7000
5124	(76) 5000

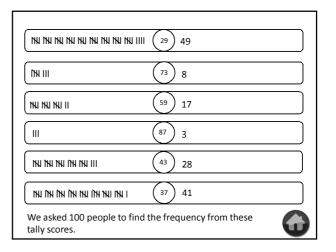


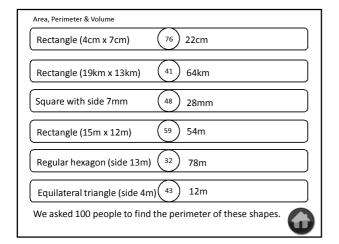
17, 26, 9, 4, 18	(76) 17
9.09, 9, 0.999, 19.19, 8.99	(23) g
251, 317, 95, 76, 108	55 108
95, 41, 25, 37, 81, 101, 65	(34) 65
41, 59, 87, 60, 94, 38	0 59.5
460, 580, 973, 428, 647	41 580
We asked 100 people to find numbers.	the median of these



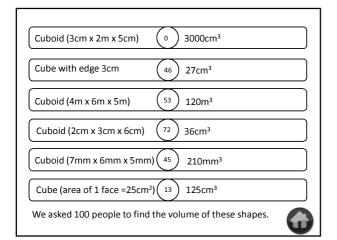


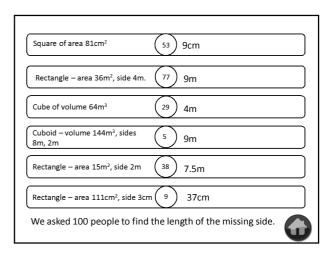


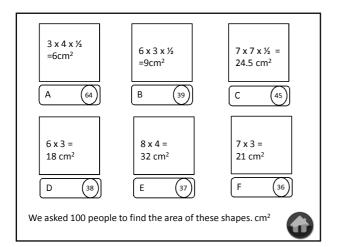


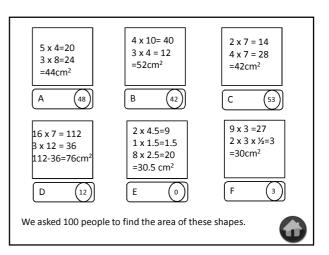


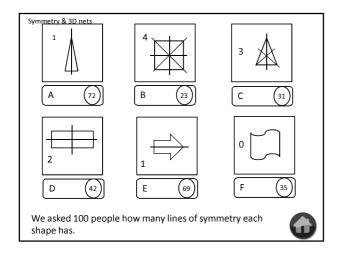
Rectangle (13cm x 8cm)	(23) 104cm ²
Square with side 11m	(45) 121m ²
Rectangle (4cm x 8cm)	(72) 32cm ²
Square with side 100m	²⁹ 10000m ²
Rectangle (12km x 15km)	21 180m ²
Rectangle (3m x 4m)	83 12m ²
We asked 100 people to find	I the area of these shapes.

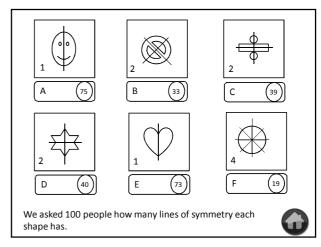


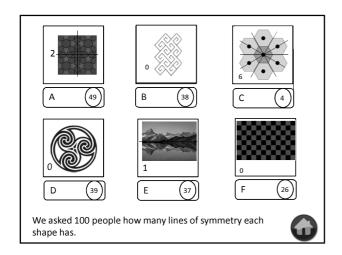


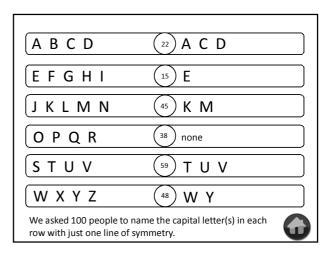


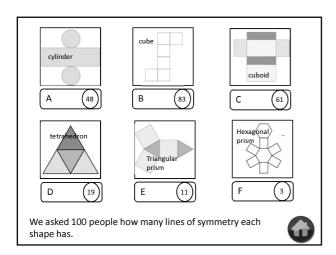


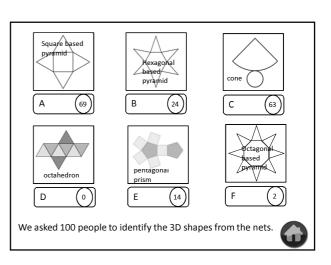


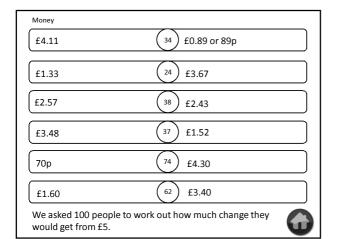




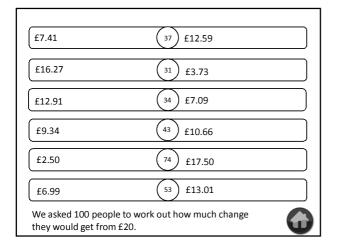


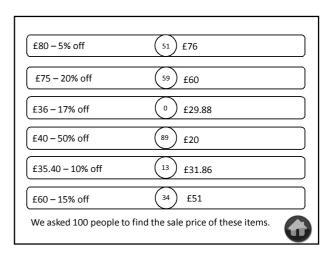






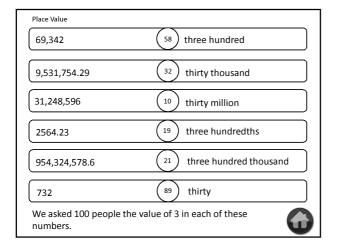
£3.99	(62) £6.01	$\overline{}$
£2.57	(26) £7.43	
f6.18	(24) £3.82	=
£5.55	(37) £4.45	\equiv
f8.34	(29) £1.66	\equiv
£4	(98) £6	$\overline{}$
We asked 100 people would get from £10.	to work out how much change they	•



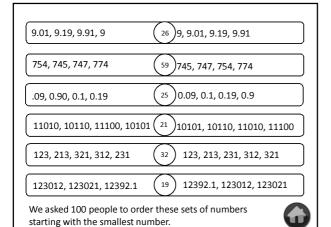


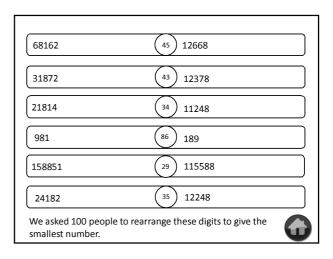
Was £75 Now £63.75	(3) 15%
Was £72 Now £48	(43) 33%
Was £16 Now £14.40	(39) 10%
Was £1000 Now £950	(52) 5%
Was £60 Now £30	84 50%
Was £9.60 Now £8.40	(19) 12.5%
We asked 100 people to w were reduced.	ork out the % off as the prices

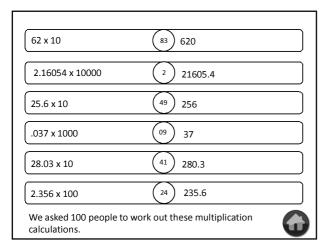
5% off – Sale price £57 (43) £60
10% off – Sale price £72 (51) £80
25% off – Sale price £108 (18) £144
20% off – Sale price 80p (67) £1
40% off – Sale price £99 (14) £165
37.5% off – Sale price £3.50 (0) £5.60
We called 100 magnic to find the opining price from the
We asked 100 people to find the original price from the sale price and the % off.



6942.5	(62) six thousand
5.06	21 six hundredths
3954.256	3 six thousandths
975.625	(39) six tenths
986,248,321.2	22 six million
4296.1	(86) six
We asked 100 people t	the value of the digit 6.



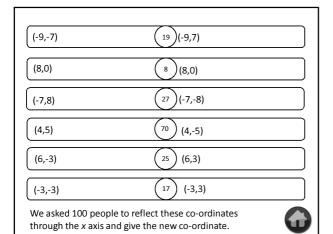


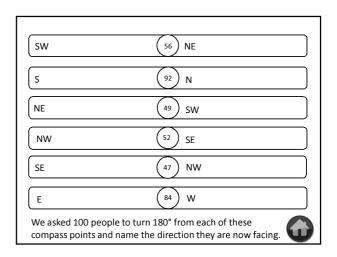


25.09 ÷ 1000	3 0.02509	`
6 ÷ 10	(50) 0.6	_
951.3 ÷ 100	9.513	
150 ÷ 10	(84) 15	
2658 ÷ 100	23 26.58	
312.68 ÷ 100	10 3.1268	

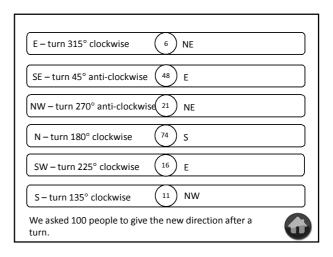
Co-ordinates & Compass points	
(2,2) (2,3) (3,2)	51 right angled triangle
(2,5) (4,5) (4,3) (2,3)	(62) square
(4,1) (4,2) (7,2) (7,1)	⁵³ rectangle
(6,1) (7,4) (8,1)	31 isosceles triangle
(5,2) (6,3) (9,3) (8,2)	14 parallelogram
(2,2) (0,6) (2,8) (4,6)	(7) kite
We asked 100 people to ic co-ordinates.	dentify the shapes from the

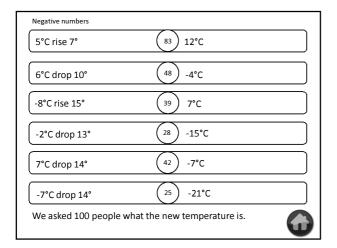
(2,2)	(68) (-2,2)	
(1,6)	(47) (-1,6)	
(6,1)	(45) (-6,1)	
(-5,4)	(9) (5,4)	
(7,-6)	(-7,-6)	
(-10,-14)	(5) (10,-14)	
We asked 100 people the y axis and give the	to reflect these co-ordinates through e new co-ordinate.	•



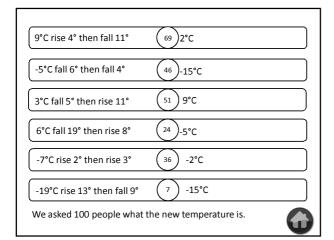


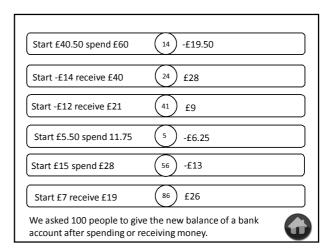
21) NW - ¾ turn clockwise SW N - ¼ turn clockwise (87) E 29 SW - 1/4 turn anti-clockwise SE E - ¾ turn anti-clockwise 47 S SE – ¼ turn clockwise SW NE – ½ turn anti-clockwise SW We asked 100 people to give the new direction after a





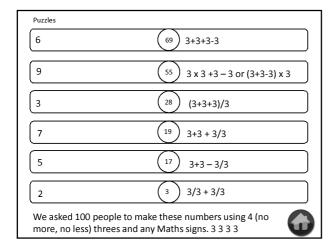
start 7°C, finish -8°C	(38) drop 15°
start -9°C, finish -6°C	(31) rise 3°
start 12°C, finish -3°C	(37) drop 15°
start -3°C, finish -19°C	drop 16°
start -1°C, finish 1°C	69 rise 2°
start 1°C, finish -1°C	(65) drop 2°
We asked 100 people to fi	nd the drop or rise in temperature.



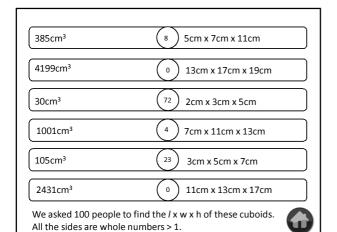


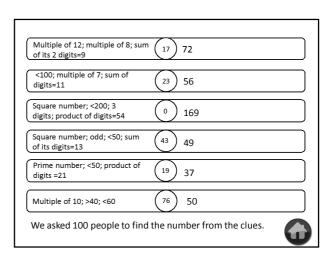
68 Spent £70
25 Received £59.50
27 Spent £63.40
81 Received £20
7 Spent £151.57
(19) Spent £52.30

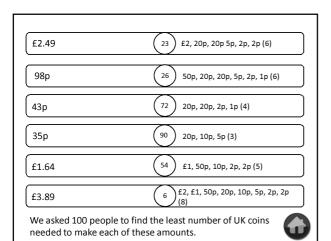
Start £25, spend £13, receive £7	(79) £19
Start -£14, spend £4, spend £6.50	(31) -£24.50
Start £87.20, spend £100, receive £19.50	(4) £6.70
Start -£200, spend £50, receive £150	(48) -£100
Start £25, receive £12, receive £13.50	(56) £50.50
Start -£64, spend £14, receive £16.30	(17) -£61.70
We asked 100 people to give account after spending and/o	



0	66 44-44 or 4+4-4-4	
8	43 4 + 4 + 4 - 4	
20	² 4 x (4/4 + 4)	
1	32 44/44 or 4+4/4+4	
9	17 4/4 + 4 + 4	
3	(28) (4+4+4)/4	
We asked 100 people to make these numbers using 4 (no more, no less) fours and any Maths signs. 4 4 4 4		







I am 3 years older than Sam who was 12 five years ago.	(54) 20
I am 7 years younger than Jane who will be 32 in 2 years time.	(45) 23
In 3 years I will be twice as old as Sarah who was 17 last year.	2 39
I am 3 years older than Jim who is 5 years younger than Anne (20).	76 18
In 2 years time I will be twice as old as James. He is 33 now.	3 68
My age is midway between Henry (38) and Georgia (12).	13 26
We asked 100 people to find	the ages from the clues.