

Wizeup School

*Maths Department*

Revision Pack

“Learning to Achieve”

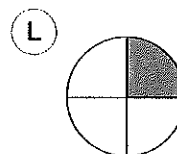
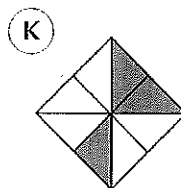
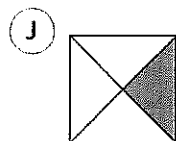
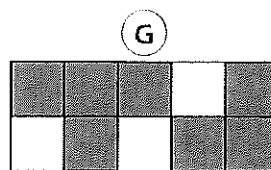
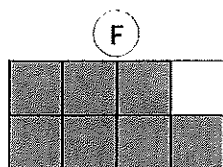
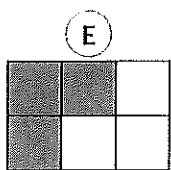
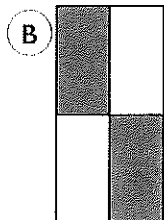
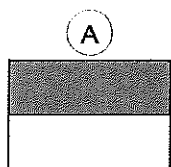
Name of Pupil:.....

Date issued:.....

# Fractions

2

## Shaded fractions



Complete this table:

Shape	A	B	C	D	E	F	G	H	I	J	K	L
Shaded fraction	$\frac{1}{2}$											
Unshaded fraction												

## Doubles and halves

6

1

### Doubles and halves



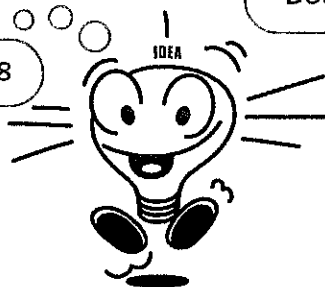
- |                     |                       |                                    |
|---------------------|-----------------------|------------------------------------|
| 1 Double 14 = ..... | 9 Half of 10 = .....  | 17 Half of ..... = 3               |
| 2 Double 11 = ..... | 10 Half of 20 = ..... | 18 Half of ..... = 15              |
| 3 Double 6 = .....  | 11 Half of 16 = ..... | 19 Half of 11 = .....              |
| 4 Double 15 = ..... | 12 Half of 30 = ..... | 20 Half of 15 = .....              |
| 5 Double 18 = ..... | 13 Half of 24 = ..... | 21 Double $5\frac{1}{2}$ = .....   |
| 6 Double 9 = .....  | 14 Double ..... = 14  | 22 Double $10\frac{1}{2}$ = .....  |
| 7 Double 19 = ..... | 15 Double ..... = 32  | 23 Half of 20 + half of 14 = ..... |
| 8 Half of 6 = ..... | 16 Double ..... = 28  | 24 Double 8 + double 5 = .....     |
|                     |                       | 25 Double 16 + half of 16 = .....  |

2

### Doubles and halves of multiples of 10 and 100


**Example**

$$\text{Double } 14 = 28$$



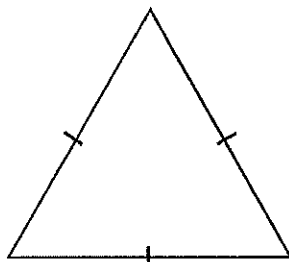
$$\text{Double } 140 = 280$$

- |                      |                        |                        |
|----------------------|------------------------|------------------------|
| 1 Double 20 = .....  | 8 Double 80 = .....    | 15 Half of 300 = ..... |
| 2 Double 40 = .....  | 9 Double 250 = .....   | 16 Half of 240 = ..... |
| 3 Double 200 = ..... | 10 Double 330 = .....  | 17 Half of 90 = .....  |
| 4 Double 70 = .....  | 11 Half of 60 = .....  | 18 Half of 360 = ..... |
| 5 Double 150 = ..... | 12 Half of 100 = ..... | 19 Half of 70 = .....  |
| 6 Double 500 = ..... | 13 Half of 200 = ..... | 20 Half of 870 = ..... |
| 7 Double 120 = ..... | 14 Half of 140 = ..... |                        |

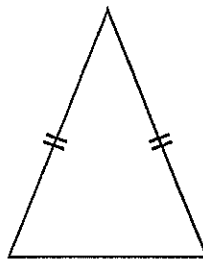
# Triangles and coordinates

## 1 Classifying triangles

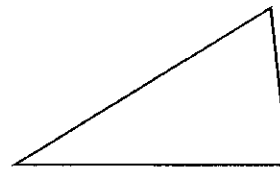
Triangles can be described as:



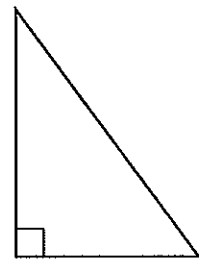
**equilateral**  
(3 equal sides)



**isosceles**  
(2 equal sides)

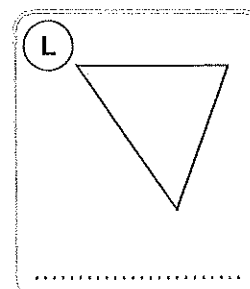
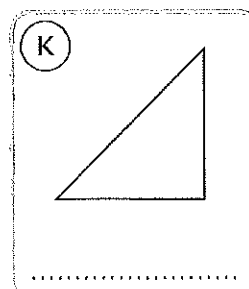
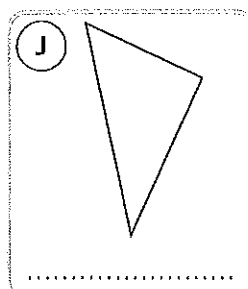
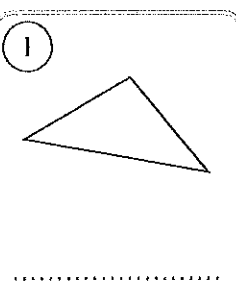
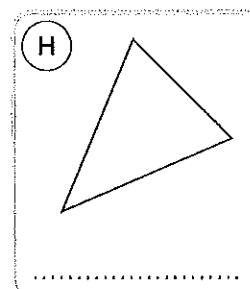
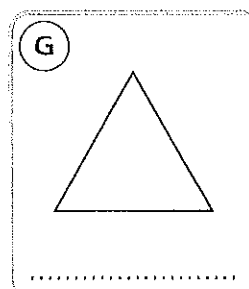
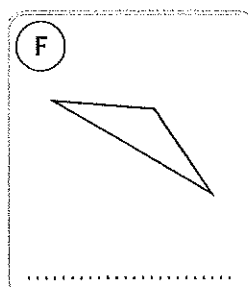
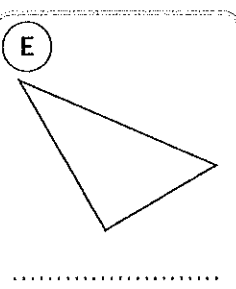
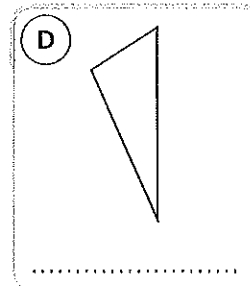
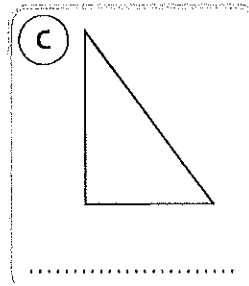
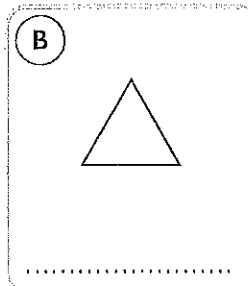
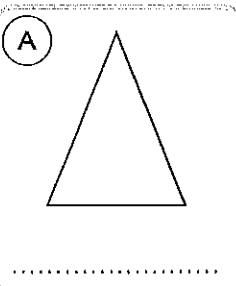


**scalene**  
(no equal sides)



**right-angled**

Say whether each of the triangles below is equilateral, isosceles, scalene or right-angled:



## Simple sequences



### Rules and patterns



All correct 1 star

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54
55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81
82	83	84	85	86	87	88	89	90

- Look at the column with 8 at the top.  
What is the rule connecting this sequence of numbers?  
.....  
.....
- Start with 8.  
Circle each number that is made by adding 7 onto the last number.  
.....  
.....
- Describe the pattern made by the numbers you have circled.  
.....  
.....

## How likely?



### Order of likelihood



All correct 1 star

Badges are being sold at a Chester Jets v Manchester Giants basketball match.



80 sold



120 sold



60 sold



50 sold



100 sold

- 1 Which badge are you most likely to see first? .....
- 2 Which badge are you least likely to see first? .....
- 3 Put the badges into order. Most likely to see .....
- .....
- .....
- .....
- .....
- Least likely to see .....

- 4 Put these events into the order of likelihood.  
Put the most likely first.

A: Someone in my class will become a millionaire one day.

B: The school will be closed on Christmas day.

C: Someone in my class will have fish and chips tonight.

D: A chimpanzee will become the next Prime Minister.

.....

## Square numbers



1

### Calculator squares search



9-10 correct 1 star

Complete the square numbers:

1 .....  $\times$  ..... = 16

5 .....  $\times$  ..... = 225

9 ..... squared = 900

2 .....  $\times$  ..... = 64

6 .....  $\times$  ..... = 484

10  $n$  squared = 7921

3 .....  $\times$  ..... = 144

7 ..... squared = 25

- what is the value of  $n$ ? .....

4 .....  $\times$  ..... = 169

8 ..... squared = 841



2

### Sums of two squares

19-20 correct 2 stars  
15-18 correct 1 star

Squares are:

	1	4	9	16
25	36	49	64	81
100	121	144	.....	

Write each number below as the sum of two squares.

2 = 1 + 1

17 = ..... + .....

20 = ..... + .....

5 = 1 + 4

50 = ..... + .....

25 = ..... + .....

13 = 4 + 9

80 = ..... + .....

125 = ..... + .....

18 = 9 + 9

65 = ..... + .....

85 = ..... + .....

8 = ..... + .....

74 = ..... + .....

61 = ..... + .....

10 = ..... + .....

104 = ..... + .....

169 = ..... + .....

106 = ..... + .....

145 = ..... + .....

26 = ..... + .....

52 = ..... + .....

202 = ..... + .....

313 = ..... + .....

## Line graphs

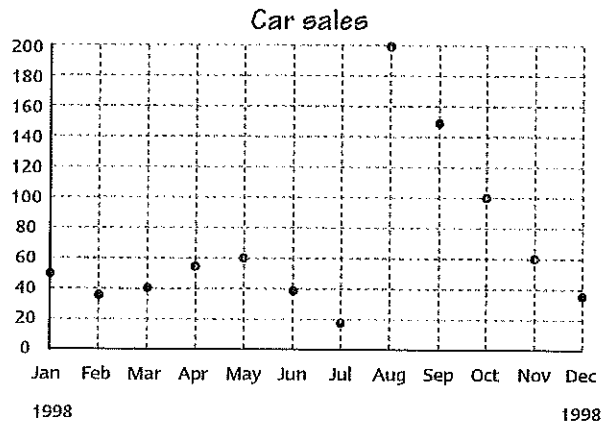


### Car sales



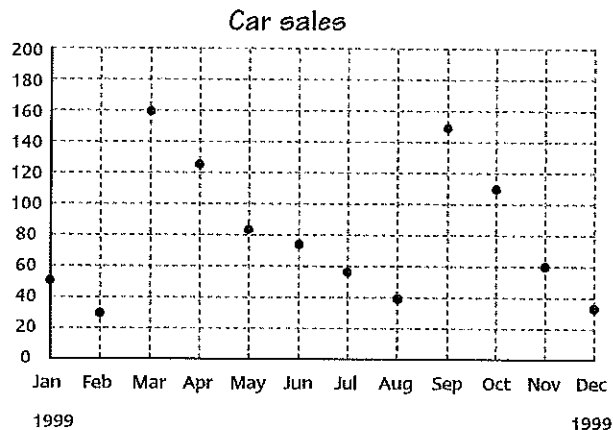
All correct 1 star

Number of cars sold



- Which month had the lowest sales? .....
- Most cars were sold in the month when the car registration letter changed. Which month was that? .....
- In which months were fewer than 40 cars sold? .....
- How many cars were sold in September? .....

Number of cars sold



- Which month had the lowest sales? .....
- In which months were more than 120 cars sold? .....
- The registration letter changed twice this year. In which two months did it change? .....
- Is it sensible to join the points on this graph? .....

Explain your answer. ....  
 .....