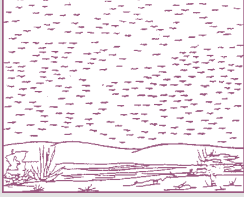



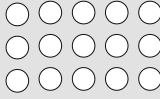
## Number and word problems

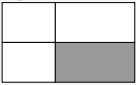

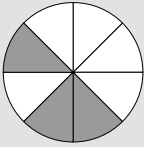
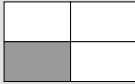


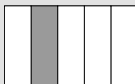
Approach: Independent

Level: Year 4 and year 8

Resources: None

Questions/instructions:		% responses	
		y4	y8
Put a ring around the letter beside the best answer or write your answer on the line. You may write on these pages when working out your answer.			
			
1. Look at this picture of birds flying. About how many birds are in the picture? Do NOT count them - only estimate.			
a. Less than 100			
b. Between 100 and 1 000	b	57	81
c. More than 1 000			
d. More than 10 000			
2. What is the difference between $\frac{3}{4}$ and $\frac{1}{4}$ ?			
a. $\frac{3}{4}$			
c. $\frac{1}{4}$			
b. $\frac{1}{2}$	b	24	55
d. 2			
			
3. The chart shows ...			
a. $\frac{1}{3}$ of the days sunny			
b. $\frac{1}{2}$ of the week sunny			
c. $\frac{2}{3}$ of the days sunny	c	31	82
d. $\frac{1}{3}$ of the days rainy			
4. Which part of the circle is missing?			
a. $\frac{1}{2}$			
b. $\frac{1}{4}$			
c. $\frac{1}{3}$			
d. $\frac{2}{3}$	d	34	74
5. A class has 35 pupils. $\frac{1}{5}$ come by bus, $\frac{2}{5}$ come by bike. How many come by other means?			
a. 7			
b. 14	b	25	55
c. 20			
d. 21			

Questions/instructions:		% responses	
		y4	y8
6. A chocolate bar 13cm long is cut into 2 equal pieces. How long will each piece be?		23	78
7. Jean is 5cm taller than Mary. Mary is 1.65 metres tall. How tall is Jean?		35	79
8. 			
Write a multiplication sentence to find the number of circles.		27	72
9. Which of the following is closest to 15 seconds?			
a. 14.1 seconds			
b. 14.7 seconds			
c. 14.9 seconds	c	36	86
d. 15.2 seconds			
10. To cook a meal for 12 people I need:			
12 chops	<u>6</u> chops	47	87
6 tomatoes	<u>3</u> tomatoes	33	84
18 potatoes	<u>9</u> potatoes	25	78
1500g peas	<u>750g</u> peas	4	46
I want to cook a meal for 6 people. Fill in the amounts of food I need.			
11. How much of the region is shaded?			
as a fraction	$\frac{1}{2}$	38	58
as a decimal	$\frac{15}{30}$ , $\frac{3}{6}$	7	21
as a percentage			49
			62
12. How much of the region is shaded?			
as a fraction	$\frac{1}{5}$	10	46
as a decimal	$\frac{5}{30}$	5	19
as a percentage			26
			38
13. How much of the region is shaded?			
as a fraction	$\frac{2}{3}$	3	41
as a decimal	$\frac{20}{30}$ , $\frac{4}{6}$	11	23
as a percentage			7
			6

	% responses y4		% responses y4
14. $2000 + 300 + 60 + 7 =$ a. 2 367 b. 20 367 c. 23 067 d. 23 607	a 40	23. Joe has 35 stamps. He buys 42 more. How many does he have altogether? a. 7 b. 35 c. 42 d. 77	d 81
15. Which is one million? a. 10 000 b. 100 000 c. 1 000 000 d. 10 000 000	c 39	24. A box holds 12 eggs. How many eggs in 7 boxes? a. 5 b. 19 c. 84 d. 714	c 68
16. Which number is greatest? a. 2 573 b. 2 537 c. 2 753 d. 2 735	c 56	25. Marbles are sold in packets of 10. Tim bought 3 packets and Sue bought 2 packets. How many marbles did they buy altogether? a. 5 b. 12 c. 32 d. 50	d 62
17. Which is an even number? a. 225 b. 233 c. 370 d. 391	c 33	26. 6 children shared 26 sweets. Each got the same number. How many were left over? a. 20 b. 4 c. 2 d. 0	c 26
18. What is 18 565 rounded to the nearest thousand? a. 18 000 b. 18 600 c. 19 000 d. 20 000	c 15	27. Look at the shaded part of each shape. Is it a quarter?	
19. Which is shown on the number line? a. $6 + 9 = 15$ b. $15 - 9 = 6$ c. $15 - 6 = 9$ d. $9 + 6 = 15$	c 16	Examples  Is it a quarter? <b>no</b>  Is it a quarter? <b>yes</b>	
20. Which part of the region is shaded?  a. $\frac{1}{8}$ b. $\frac{1}{4}$ c. $\frac{1}{2}$ d. $\frac{3}{4}$	b 28	a. Is it a quarter?  yes 71	
21. How many thirds are equal to one whole? a. $\frac{1}{3}$ b. 1 c. 2 d. 3	d 35	b. Is it a quarter?  no 56	
22. Which fraction is equivalent to $\frac{1}{2}$ ? a. $\frac{1}{3}$ b. $\frac{1}{4}$ c. $\frac{2}{4}$ d. $\frac{2}{3}$	c 20	c. Is it a quarter?  no 70	
		d. Is it a quarter?  yes 67	

1/2/00, 3:31 PM