## Number and word problems

Approach: Independent Level: Year 4 and year 8

Resources: None

Questions/instructions:		ponses		% rest	bonses
Put a ring around the letter beside the	y4	<i>y</i> 8	6. A chocolate bar 13cm long is cut	<i>y4</i>	<i>y</i> 8
best answer or write your answer on the			into 2 equal pieces.		
line. You may write on these pages when			How long will each piece be?	23	78
working out your answer.					
			7. Jean is 5cm taller than Mary.		
			Mary is 1.65 metres tall.	35	79
			How tall is Jean?	3,	,,
			0000		
W W			0000		
			8.		
1 Year at the original of the definition					
1. Look at this picture of birds flying.			Write a multiplication sentence to find	27	72
About how many birds are in the picture? Do NOT count them - only			the number of circles.		
estimate.			9. Which of the following is closest		
a. Less than 100			to 15 seconds?		
b. Between 100 and 1 000			a. 14.1 seconds		
c. More than 1 000	57	81	b 147 seconds	26	06
d. More than 10 000			c. 14.9 seconds	36	80
			d. 15.2 seconds		
2. What is the difference between $\frac{3}{4}$ and $\frac{1}{4}$	•				
a. 3/4 c. 1/4	24	55	10. To cook a meal for 12 people I need:		
b. ½ d. 2	21	))	12 chops chops	47	87
_			6 tomatoes <u>3</u> tomatoes	33	84
			18 potatoes potatoes	25	78
			1500g peas <u>750g</u> peas	4	46
3. The chart shows			I want to cook a meal for 6 people.		
a. $\frac{1}{3}$ of the days sunny			Fill in the amounts of food I need.		
b. $\frac{1}{2}$ of the week sunny	31	82	11. How much of the region is shaded?		
	91	02	as a fraction 1/2	38	58
c. $\frac{3}{5}$ of the days sunny			15/30, 3/6	7	21
d. $\frac{1}{5}$ of the days rainy			as a decimal		49
4. Which part of the circle is missing?			as a percentage		62
$\mathbf{a}$ . $\frac{1}{2}$					
		(	12. How much of the region is shaded?		
b. ½	34	74	as a fraction 1/5	10	46
c. ½			5/30	5	19
d. <sup>2</sup> / <sub>3</sub>			as a decimal		26
			as a percentage		38
5. A class has 35 pupils. ½ come by bus,					
$\frac{2}{5}$ come by bike. How many come by			13. How much of the region is shaded?		, .
other means?			as a fraction 2/3	3	41
a. 7			20/30,4/6 as a decimal	11	23
<b>b</b> . 14	25	55			7
c. 20			as a percentage		6
d. 21					

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	% rest	onses	% rest	onses
14 2000 + 200 + 60 + 7 =	<i>y</i> 4		y4	
14.2000 + 300 + 60 + 7 = a. 2 367		23. Joe has 35 stamps. He buys 42 more. How many does he have altogether?		
b. 20 367	40	a. 7		
c. 23 067	40	b. 35	81	
d. 23 607		c. 42		
15. Which is one million?		d. 77		
a. 10 000				
1 100 000	39	24. A box holds 12 eggs.		
c. 1 000 000		How many eggs in 7 boxes? a. 5		
d. 10 000 000		b. 19	68	
16. Which number is greatest?		c. 84		
a. 2573		d. 714		
b. 2 537	56			
c. 2753		25. Marbles are sold in packets of 10. Tim		
d. 2 735		bought 3 packets and Sue bought 2		
17. Which is an even number?		packets. How many marbles did they		
a. 225		buy altogether? a. 5		
	33		62	
c. 370		c. 32	02	
d. 391		d. 50		
18. What is 18 565 rounded to the nearest				
thousand?		26.6 children shared 26 sweets. Each got		
a. 18 000 b. 18 600		the same number.		
c. 19 000	15	How many were left over? a. 20		
d. 20 000		b. 4	26	
		c. 2		
		d. 0		
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15				
19. Which is shown on the number line?		27. Look at the shaded part of each shape.		
a. $6 + 9 = 15$		Is it a quarter?		
	16	Examples		
c. 15 - 6 = 9				
d. $9 + 6 = 15$				
20. Which part of the region is shaded?		Is it a quarter? no Is it a quarter? yes		
To which pure of the region to dimucul		. ,		
$a. \frac{1}{3}$		a. Is it a quarter? yes	71	
b. $\frac{3}{8}$	28			
C. §	20			
d. 3/5		b. Is it a quarter?	56	
		b. Is it a quarter?	30	
21. How many thirds are equal to one whole?				
a. $\frac{1}{3}$				
b. 1	35	c. Is it a quarter?	70	
C. 2				
d. 3				
22. Which fraction is equivalent to $\frac{1}{2}$ ?		d. Is it a quarter?	67	
a. ½ b. ¼				
C. 2/4	20			
d. $\frac{2}{3}$				

28. The number 4 <sup>5</sup> can be renamed as	% responses		% responses
a. 4×5 b. 4+4+4+4+4	<i>y</i> 8	37. Christy has 88 photographs to put in her album. If 9 photographs fit on each page, how many pages will she need?	<i>y</i> 8
c. 4×4×4×4×4 d. 5+5+5+5		a. 8 c. 10 b. 9 d. 11 c	60
29. Another name for 27 is a. 39		38. Add 6 to -12. The answer is	
b. 9 <sup>3</sup> c c. 3 <sup>3</sup> d. 13½	26	a6 b. 6 c18 d. 18	53
30. Which is another name for $4 \times 10^3$ ? a. $4 \times (3 \times 10)$		midday midnight	
a. 4× (3×10) b. 4× (10+3) c. 40×3 d. 4000	23	25 — 25 — 20 — 20 — 15 — 15 — 15 — 15 — 15 — 15 — 15 — 1	
31. If $1\frac{1}{3}$ cups of flour are needed for a batch of cookies, how many cups of flour will be needed for 3 batches? a. $4\frac{1}{3}$		5 = 5 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 =	
b. 4 c. 3 d. 2 <sup>2</sup> / <sub>3</sub>	58	At midday the thermometer read 15°C. At midnight it read -3°C. By how many degrees had the	
32. The weight of an object on the Moon is $\frac{1}{6}$ the weight of that object on the Earth. An object that weighs 30 kg on Earth would weigh how		temperature dropped? 18° 40. A total of 10 597 people went to an outdoor concert. When it began to rain,	56
many kg on the Moon? 5kg 33. On this number line, place a dot at the	44	1 694 people left the concert? About how many people remained at the concert?	
point that could represent 1.75. $\begin{array}{ccccccccccccccccccccccccccccccccccc$	46	a. 900 b. 8 000 c. 9 000 d. 12 000	66
34. Which fraction is equivalent to $\frac{1}{4}$ ?  a. $\frac{4}{8}$		41. Which number is between .07 and .08? a008	
b. \frac{5}{12} d c. \frac{5}{16} d. \frac{5}{20}	57	b06 c075 d75	50
35. Which is another name for $\frac{27}{6}$ ?		42. Write this number as a decimal.	41
a. $4\frac{1}{2}$ b. $2\frac{5}{6}$ c. $7\frac{1}{3}$ d. $3\frac{1}{6}$	35	3 $\frac{3}{10}$ =  43. Which decimal represents the shaded part of the figure?  a. 0.5	
36. A store sells 168 cassettes each week. How many cassettes does it sell in 24 weeks?  a. 7  b. 192	7.4	b. 0.28 c. 0.2 d. 0.02	74
c. 4 032 d. 4 172	74	44. Of the following, which is the best estimate of the number the arrow points to?  a. 1.2 b. 1.5 c. 1.7  a	86

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