## Number and word problems

Approach: Independent
Resources: None


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 1000
b $\quad 57 \quad 81$
c. More than 1000
d. More than 10000
2. What is the difference between $\frac{3}{4}$ and $\frac{1}{4}$ ?
a. $\frac{3}{4}$
C. $\frac{1}{4}$
b $24 \quad 55$
b. $\frac{1}{2}$
d. 2

3. The chart shows ...
a. $\frac{1}{3}$ of the days sunny
b. $\frac{1}{2}$ of the week sunny $\quad$ c $\quad 31 \quad 82$
c. $\frac{3}{5}$ of the days sunny
d. $\frac{1}{5}$ 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. $\frac{2}{3}$

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
c. 20
d. 21

## \% responses

 $y 4 \quad y 8$$\frac{1}{4}$

.

Level: Year 4 and year 8
6. A chocolate bar 13 cm long is cut into 2 equal pieces.
How long will each piece be?
\% responses
$\begin{array}{ll}\boldsymbol{y} 4 & y 8\end{array}$
$23 \quad 78$
7. Jean is 5 cm taller than Mary. Mary is 1.65 metres tall. How tall is Jean?
8.


Write a multiplication sentence to find the number of circles.
9. Which of the following is closest
to 15 seconds?
a. 14.1 seconds
b. 14.7 seconds
c $\quad 36 \quad 86$
c. 14.9 seconds
d. 15.2 seconds
10. To cook a meal for 12 people I need:

| 12 chops | 6 | chops | 47 |
| :--- | :--- | :---: | :---: |
| 6 tomatoes | 3 | tomatoes | 33 |
| 9 | 84 |  |  |
| 18 potatoes | $\frac{9}{9}$ potatoes | 25 | 78 |
| $1500 g$ peas | $\underline{750 g}$ 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 | 1/2 | 38 | 8 |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 15/30, 3/6 | 7 | 1 |
|  | as a decimal |  |  |  |
|  | as a percentage |  |  |  |

12. How much of the region is shaded?

|  |  | as a fraction | $1 / 5$ | 10 |
| :--- | :--- | ---: | :---: | :---: |
|  | 46 |  |  |  |
|  |  | $5 / 30$ | 5 | 19 |
|  | as a decimal |  |  | 26 |
|  | as a percentage |  |  | 38 |

13. How much of the region is shaded?

|  |  | as a fraction | 2/3 | 3 |  | 41 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 20/30,4/6 | 1 |  | 23 |
|  | $\square$ | as a decimal |  |  |  | 7 |
|  |  | as a percentage |  |  |  | 6 |


15. Which is one million?
a. 10000
b. 100000
c 39
c. 1000000
d. 10000000
16. Which number is greatest?
a. 2573
b. 2537
c 56
c. 2753
d. 2735
17. Which is an even number?
a. 225
b. 233
c. 370
d. 391
18. What is 18565 rounded to the nearest thousand?
a. 18000
b. 18600

C 15
c. 19000
d. 20000

19. Which is shown on the number line?
a. $6+9=15$
b. $15-9=6$
c. $15-6=9$
d. $9+6=15$
20. Which part of the region is shaded?

$\begin{array}{ll}\text { a. } & \frac{1}{3} \\ \text { b. } & \frac{3}{8}\end{array}$
c.
b 28
21. How many thirds are equal to one whole?
a. $\frac{1}{3}$
b. 1
c. 2
d 35
d. 3
22. Which fraction is equivalent to $\frac{1}{2}$ ?
a. $\frac{1}{3}$
b. $\frac{1}{4}$
c. $\frac{2}{4}$
d. $\frac{2}{3}$
b. 20367
.
c. 23067

23607
-
?

d. $9+6=15$

$\square$
.
23
23. Joe has 35 stamps. He buys 42 more. How many does he have altogether?
a. 7
b. 35
d 81
c. 42
d. 77
24. A box holds 12 eggs.

How many eggs in 7 boxes?
a. 5
b. 19
c 68
c. 84
d. 714
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
26.6 children shared 26 sweets. Each got the same number.
How many were left over?
a. 20
b. 4
c 26
c. 2
d. 0
27. Look at the shaded part of each shape. Is it a quarter?

28. The number $4^{5}$ can be renamed as ...
a. $4 \times 5$
b. $4+4+4+4+4$
c. $4 \times 4 \times 4 \times 4 \times 4$
d. $5+5+5+5$
29. Another name for 27 is ...
a. $3^{9}$
b. $9^{3}$
c. $3^{3}$
d. $13 \frac{1}{2}$
30. Which is another name for $4 \times 10^{3}$ ?
a. $4 \times(3 \times 10)$
b. $4 \times(10+3)$
c. $40 \times 3$
d. 4000
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. $4 \frac{1}{3}$
b. 4
b
c. 3
d. $2 \frac{2}{3}$
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 many kg on the Moon?

5 kg
33. On this number line, place a dot at the point that could represent 1.75 .

34. Which fraction is equivalent to $\frac{1}{4}$ ?
a. $\frac{4}{8}$
b. $\frac{5}{12}$

57
c. $\frac{5}{16}$
d. $\frac{5}{20}$
35. Which is another name for $\frac{27}{6}$ ?
a. $4 \frac{1}{2}$
b. $2 \frac{5}{6}$
c. $7 \frac{1}{3}$
d. $3 \frac{1}{6}$
36. A store sells 168 cassettes each week. How many cassettes does it sell in 24 weeks?
a. 7
b. 192
c. 4032
d. 4172
39.


At midday the thermometer read $15^{\circ} \mathrm{C}$.
At midnight it read $-3^{\circ} \mathrm{C}$.
By how many degrees had the temperature dropped?
$18^{\circ}$
40.A total of 10597 people went to an 40. A total of 10597 people went to an
outdoor concert. When it began to rain, 1694 people left the concert? About how many people remained at the concert?
a. 900
b. 8000
c. 9000
d. 12000
41. Which number is between .07 and .08 ?
a. . 008
b. . 06
c. .075
d. .75
42. Write this number as a decimal.
$3 \frac{3}{10}=$
43. Which decimal represents the shaded part of the figure?
a. 0.5
b. 0.28
c. 0.2
d. 0.02
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
 her album. If 9 photographs fit on each page, how many pages will she need?
a. 8
b. 9
c. 10
d. 11
38. Add 6 to -12 .The answer is...
a. -6
b. 6
c. -18
d. 18
C.
 ncert?


