

A

- Which is better value? 12 items for 72c or 15 items for 75c

2. **Spot the mistake:** Mary ate the bigger half of the cake.

3. Tadhg spent €1.40 on Monday. He spent 60c more than that on Tuesday. How much did he spend altogether?

4. Increase 10 by 10%.

5. **Is this certainly true?** There are 8 teachers in a room. There are 5 men in the room. Therefore there are 13 people in the room.

6.  $\frac{5}{4} + \frac{5}{4} = \text{---}$

7.  $\frac{5}{4} \times \frac{5}{4} = \text{---}$

8. To invert something means to turn it upside down. Write  $2\frac{1}{4}$  as an improper fraction and invert it.

B

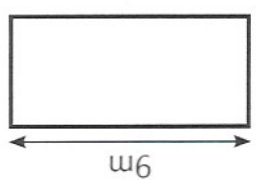
1. How many of these signs and symbols can you name?  $\heartsuit \neq \leq \approx \infty$

2. A number is reduced by 25% and the result is 60. What is the number?

3. **In your mathematical opinion:** What is the lightest thing you can see without using a microscope?

4. Write 0.045 as a percentage.

5. The perimeter of this rectangle is 26m. How wide is it?



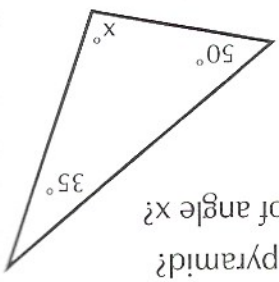
6. The gross weight of a box of rice is 1kg. What is the likely net weight of the rice? Give a sensible answer.

7.  $4 \times 13 = \text{---}$

8. Which is better value? 12 items for 40c or 15 items for 55c

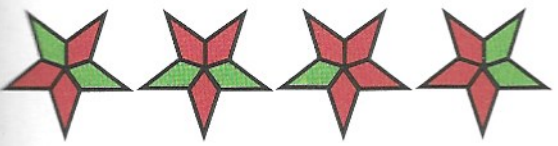
9. How many more faces has a square pyramid than a triangular pyramid?

10. What is the size of angle  $x$ ?



11.  $\frac{5}{4}$  of  $\text{---} = 80$

12. If you took all of the red parts of the stars, how many full stars could you make?



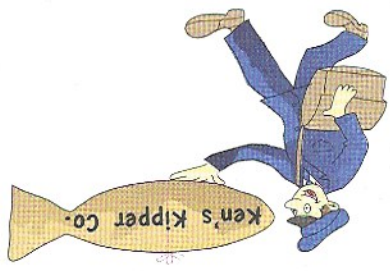
13. Reduce 35 by 20%.

14. By how much is 0.3 greater than 0.03?

15. Which number is closest to 10? 9.87, 10.003 or 9.99

15

15



15.  $4 \square = 64$



14. How many octagons are in the diagram?

How many scored 60% or higher?

13. Here are the scores of 8 students in a test: 41%, 90%, 60%, 72%, 37%, 91%, 53%, 80%

12.  $18 - 7 + 6 = \text{---}$

11. **Spot the mistake:**  $6 - 2\frac{5}{4} = 4\frac{5}{1}$

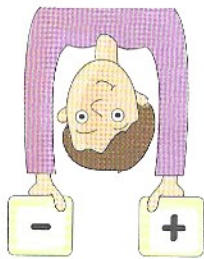
10. What number is 10 less than 1 million?

9.  $16:20 = \text{---}:5$

**Mental Maths**

9.  $8 \times 8 \times 8 \times 8 \times 8 = \underline{\hspace{2cm}}$
10.  $0.2 \times 0.2 = \frac{\square}{10} \times \frac{\square}{10} = 1$
11. Round 15.09 to the nearest whole number.
13. Decode the mirror writing.

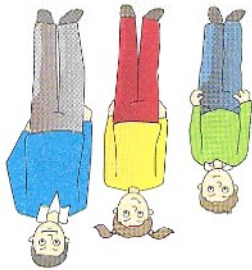
1. Share 60 in the ratio 5:1.
2. Which is greater?  $\frac{3}{1} \times \frac{3}{1}$  or  $\frac{3}{1} + \frac{3}{1}$
3. Today's midday temperature is warmer than yesterday's (-3°) but colder than that the day before (+1°). What might it be? Give all possible whole number answers.
4.  $3 + 0.3 + 0.03 = \underline{\hspace{2cm}}$



**Spot the mistake:**

5. The perimeter of the garden is 72m<sup>2</sup>.
6. Increase 20 by 5%.
7. **What information is missing?** Which would you prefer: to get a €20 discount or a 20% discount?
8. How many days in the first 3 months of the year (not a leap year)?

14.  $32 \div 4 \times 2 = \underline{\hspace{2cm}}$
15. A woman made a profit buying and selling a table. Which was higher, the CP or the SP?



**Multiple Choice**

1. A runner runs 4 laps of a track in a race. Which lap is likely to be her fastest lap?  
First, second, third, last
2. What time comes 11 hours and 10 minutes before midnight?  
11:10, 23:10, 01:10, 12:50
3.  $1 - 0.005 = \underline{\hspace{2cm}}$   
1.005, 0.95, 0.905, none of these
4. How many more edges has a cuboid than a square pyramid?  
4, 8, 12, none of these
5. What name is given to a 10-sided 2D shape?  
dodecagon, tetrahedron, decagon, nonagon
6. What is my speed if I travel 210km in 3 hours?  
630kph, 70kph, 180kph, none of these
7. Share 63 in the ratio 5:2.  
9 and 54, 54 and 9, 18 and 45, 45 and 18
8. On Monday Bill had €40 in his account. On Wednesday his balance read -€15. How much did he take out?  
€25, €40, €55, €65
9.  $1^9 = \underline{\hspace{2cm}}$   
1, 9, 0, 19
10. Which of these numbers is a common multiple of 10 and 15?  
5, 10, 20, 60

