

## Year 7 Class 13 questions

**Q1**

Write as a fraction in its simplest form.

$$45\% = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \quad \frac{9}{20}$$

**Q2**

Find 30% of 920 metres.

metres  
**276 m**

**Q3**

What percentage is 350 grams of 1 kg?

% **35%**

**Q4**

The three angles of a triangle are in the ratio 3:4:8.

Find the size of the smallest angle in degrees.

**36°**

**Q5**

Which is the best buy?

- 3 litres of juice for \$4.50.  
 500 mL of juice for \$0.80.

**Q6**

Write as a fraction in its simplest form.

$$12.5\% = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \quad \frac{1}{8}$$

**Q7**

Write as a fraction in its simplest form.

$$6.25\% = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \quad \frac{1}{16}$$

**Q8**

Find 20% of 2.5 kg.

grams  
**500 g**

**Q9**

Find 70% of 12.5 metres.

cm  
**875 cm**

**Q10**

Write 50 cm as a percentage of 4 metres.

% **12.5%**

**Q11**

Write 250 grams as a percentage of 2 kg.

% **12.5%**

**Q12**

Two numbers are in the ratio of 3:7.  
Their sum is 80.

Find the smaller number.

24

### Q13

\$30 is shared between 3 boys in the ratio  
7:3:2.

What is the largest share?

\$  \$17.50

### Q14

Which is the best buy?

- 8 vases for \$37.20.  
 3 vases for \$14.55.

### Q15

Which is the best buy?

- 250 g of cheese for \$16.35.  
 100 g of cheese for \$7.20.

### Q16

Write as a fraction in its simplest form.

$14\frac{1}{2}\% = \frac{\text{ } \text{ }}{\text{ } \text{ }} \quad \frac{29}{200}$

### Q17

Write as a fraction in its simplest form.

$87\frac{1}{2}\% = \frac{\text{ } \text{ }}{\text{ } \text{ }} \quad \frac{7}{8}$

### Q18

Write as a fraction in its simplest form.

$6\frac{1}{4}\% = \frac{\text{ } \text{ }}{\text{ } \text{ }} \quad \frac{1}{16}$

### Q19

Find 5% of \$125.

\$   
\$6.25

### Q20

Find 8% of \$524.

\$   
\$41.92

### Q21

Find 35% of \$487.

\$   
\$170.45

### Q22

Jena scored 21 out of 25 on a test.

What percentage is this?  % 84%

### Q23

Vikki has run 11.7 km of the 18 km course.

What percentage is this?  % 65%

**Q24**

Ninja Sarah completed 9 obstacles out of 12. What percentage of the course did she complete?  % **75%**

**Q25**

\$480 is divided between Lewis and Liam in the ratio 7 : 5.

How much more does Lewis receive than Liam?

\$  **\$80**

**Q26**

A class of 30 students contains boys and girls in the ratio 2 : 3.

How many more girls are there than boys?

**6**

**Q27**

A fruit bowl contains oranges, apples and bananas in the ratio 3 : 4 : 2.

How many more apples are than oranges if there are 36 pieces of fruit in the bowl?

**4**

**Q28**

Which is the best buy?

- 1 L of juice for \$15.40.
- 250 mL of juice for \$4.10.
- 330 mL of juice for \$5.28.
- 2.5L of juice for \$41.15.

**Q29**

Which is the best buy?

- 2L for \$2.50.
- 5L for \$5.50.
- 8L for \$9.20.
- 10L for \$10.80.

**Q30**

Which store has the best buy?

- Quick Mart: 1 kg of apples for \$4.35
- Corner Shop: 750 g of apples for \$3.40
- Fruit Mart: 500 g of apples for \$2.45
- Fruit 'n' veg: 1.5 kg of apples for \$6.65