

Year 8 Class 9 questions

Q1

What percentage is 275 grams of 2 kg?

%

Q2

Find 3% of \$235.

\$

Q3

Increase \$3200 by 35%.

\$

Q4

Find the profit or loss as a percentage of the cost price.

Cost price = \$15 Selling price = \$10.8

%

profit loss

Q5

A 3 metre long piece of ribbon is cut into two pieces in the ratio 3 : 2.

How long is the shorter piece?

metres

Q6

Write 36 minutes as a percentage of 2 hours.

%

Q7

Write 81 minutes as a percentage of 3 hours.

%

Q8

Find $\frac{1}{2}$ % of \$650.

\$

Q9

Find 5.2% of 3.5 m.

m

Q10

Increase \$190 by 22.5%.

\$

Q11

Increase \$300 by 2.4%.

\$

Q12

Maria buys a coat for \$450 and sells it for \$500. Calculate (to 1 d.p.) her profit as a percentage of the cost price.

%

Q13

Albert buys a lounge for \$3200 and sells it for \$2100. Calculate (to 1 d.p.) his loss as a percentage of the cost price.

%

Q14

A sweets mix contains Jellies, Smarties and Bananas in the ratio 8:9:10.

If there are 864 sweets in total, how many are Smarties?

Q15

Tropicana is made by mixing orange juice, pineapple juice and passionfruit juice in the ratio 5:3:2. How much orange juice is needed to make 2 litres of *Tropicana*?

 mL

Q16

Jena scored 21 out of 25 on a test. What percentage is this? %

Q17

Vikki has run 11.7 km of the 18 km course. What percentage is this? %

Q18

Tony has cycled 90 km of the 125 km course. What percentage is this? %

Q19

Find $16\frac{2}{3}\%$ of 3 t.

 t

Q20

Find $15\frac{1}{3}\%$ of 300 kg.

 kg

Q21

Find $75\frac{1}{3}\%$ of 6 km.

 km

Q22

Tom's bike cost him \$250 and he wants to sell it to make a 20% profit. What price should he sell it for?

\$

Q23

UFO sightings increased by 95% from 1968 to 1969. If 80 UFO's were seen in 1968, how many were spotted in 1969?

Q24

Mary's dress cost her \$160 and she wants to sell it to make a 15% profit. What price should she sell it for?

\$

Q25

Kate buys cans of soft drink in boxes for \$6 and sells it for \$10. Calculate her profit as a percentage of the selling price.

 %

Q26

Maya buys a laptop for \$1200 and sells it for \$745. Calculate (to 1 d.p.) her loss as a percentage of the selling price.

 %

Q27

Nancy buys a house for \$450 000 and sells it for \$525 000. Calculate (to 1 d.p.) her profit as a percentage of the selling price.

%

Q28

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

How many more girls are there than boys?

Q29

2 tonnes of gravel mix contains river stone and blue metal in the ratio 3 : 7.

How much more blue metal is there than river stone?

kg

Q30

A fruit drink is made using orange, pineapple and passionfruit juice in the ratio 3 : 2 : 1.

How much more pineapple juice than passionfruit juice is there in 2.4 litres of the drink?

mL