

## Year 8 Class 12 questions

Q1

$$\$28 \text{ for } 0.4 \text{ hours} = \$ \boxed{\phantom{00}} / \text{h}$$

Q2

$$\$9 \text{ for } 1.8 \text{ kg} = \$ \boxed{\phantom{00}} / \text{kg}$$

Q3

Complete the conversion.

$$\$9/\text{hr} = \boxed{\phantom{00}} \text{ cents/min}$$

Q4

Complete the conversion.

$$20 \text{ m/s} = \boxed{\phantom{00}} \text{ km/h}$$

Q5

$$\$1.50/\text{metre} = \$ \boxed{\phantom{00}} / \text{km}$$

Q6

Vince uses 50 g of sugar to make 2 litres of lemonade. If one cup holds 250 mL, how much sugar is in one cup of lemonade?

$$\boxed{\phantom{00}} \text{ g}$$

Q7

$$4 \text{ hours to travel } 10 \text{ km} = \boxed{\phantom{00}} \text{ km/h}$$

Q8

$$4 \text{ tonnes in } 5 \text{ days} = \boxed{\phantom{00}} \text{ days/tonne}$$

Q9

$$\$4 \text{ for } 200 \text{ pegs} = \boxed{\phantom{00}} \text{ cents/peg}$$

Q10

Complete the conversion.

$$6 \text{ cm/sec} = \boxed{\phantom{00}} \text{ m/h}$$

Q11

Complete the conversion.

$$25 \text{ kg/min} = \boxed{\phantom{00}} \text{ tonnes/hour}$$

Q12

Complete the conversion.

$$4.8 \text{ m/min} = \boxed{\phantom{00}} \text{ cm/sec}$$

Q13

A machine can pump water at a rate of 224 litres per minute. How much water can be pumped in 3 hours?

$$\boxed{\phantom{00}} \text{ L}$$

Q14

To rent a car it costs \$46/day. What will it cost to rent the car for 3 weeks?

$$\$ \boxed{\phantom{00}}$$

Q15

Matt's family is paying \$360/day to hire a yacht. How much will it cost to hire the yacht for 1 week?

$$\$ \boxed{\phantom{00}}$$

Q16

A wheel has a circumference of 6.28 m. How many revolutions would it make to travel 1 km? (Answer to the nearest whole number).

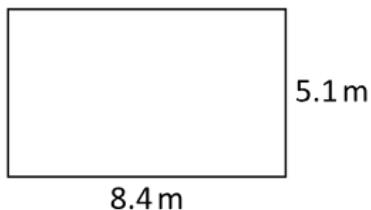
Q17

Driving at 90 km/h a car takes 4 hours to travel between two towns. How long will it take to travel between the same two towns at a speed of 60 km/h?

 hours

Q18

Turf is sold at \$12.50/m<sup>2</sup>. How much would it cost to turf this rectangular lawn?



\$

Q19

Maria packs 225 cups in 9 minutes. How many cups per minute does she pack?

 cups/min

Q20

Lulu takes 2 minutes to run 600 metres. How fast is this in metres per second?

 m/s

Q21

Hazel packs 270 boxes in 1 hour. How many boxes per minute does she pack?

 boxes/min

Q22

Complete the conversion.

$$4 \text{ mm/sec} = \text{ } \text{ m/h}$$

Q23

Complete the conversion. (Ans. to 1 d.p.)

$$500 \text{ L/day} = \text{ } \text{ mL/s}$$

Q24

Complete the conversion.

$$2 \text{ m/s} = \text{ } \text{ km/year}$$

Q25

A drip administers medicine at a rate of 3 mL/minute. How long will it take to administer 600 mL?

 hours  minutes

Q26

$$21 \text{ c/mL} = \$ \text{ } /\text{L}$$

Q27

$$230 \text{ g/day} = \text{ } \text{ kg/week}$$

Q28

Driving at 80 km/h, a car takes 5 hours and 30 minutes to travel between two towns. How long will it take to travel between the same two towns at a speed of 60 km/h?

 hours  minutes

Q29

A hose delivers 1.5L of water per second. It takes 8 hours to fill 3 identical swimming pools with this hose. How much water is in each pool?

kL

Q30

Water is flowing from a hose at a rate of 1.5L per second. How long would it take to fill a child's pool with a capacity of 210 litres?

min  sec