Year 8 Class 12 questions

Q1

$28 for 0.4 hours = $ [   ] /h
70

Q2

$9 for 1.8 kg = $ [   ] /kg
5

Q3

Complete the conversion.

$9/hr = [   ] cents/min
15

Q4

Complete the conversion.

20 m/s = [   ] km/h
72

Q5

$1.50/metre = $ [   ] /km
1500

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?

[   ] g   6.25 g

Q7

4 hours to travel 10 km = [   ] km/h
2.5

Q8

4 tonnes in 5 days = [   ] days/tonne
1.25

Q9

$4 for 200 pegs = [   ] cents/peg
2

Q10

Complete the conversion.

6 cm/sec = [   ] m/h
216

Q11

Complete the conversion.

25 kg/min = [   ] tonnes/hour
1.5

Q12

Complete the conversion.

4.8 m/min = [   ] cm/sec
8

Q13

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

[   ] L   40 320

Q14

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

$ [   ] $966

Q15

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

$ [   ] $2520

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).
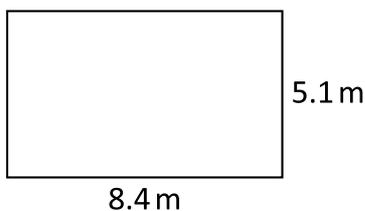
[   ]   159

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   6 hours

Q18

Turf is sold at $12.50/m². How much would it cost to turf this rectangular lawn?

[rectangle: 5.1 m height, 8.4 m width]

5.1 m

8.4 m

$ [   ] $535.50

Q19

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

[   ] cups/min   25

Q20

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

[   ] m/s   5

Q21

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

[   ] boxes/min   4.5

Q22

Complete the conversion.

4 mm/sec = [   ] m/h
          14.4

Q23

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

500 L/day = [   ] mL/s
           5.8

Q24

Complete the conversion.

2 m/s = [   ] km/year
        63 072

Q25

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

[ ] hours [ ] minutes

3 hours 20 minutes

Q26

21 c/mL = $ [ ] /L

210

Q27

230 g/day = [ ] kg/week

1.61

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

7 hours 20 minutes

Q29

A hose delivers 1.5 L 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   14.4 kL

Q30

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

[ ] min [ ] sec

2 min 20 sec