

Worksheet 2 Length and distance: calculations

1. The edging for a cupboard door costs R10,95/m. The height of the cupboard is 185 cm. What will the cost be to edge one length of the door? [4]
2. The 10 000 m athletic event is run on a standard 400 m athletic track. How many times will Loyiso run around the track to complete the race? [3]
3. Jaco delivers fast food and reads his car odometer at the beginning and end of each week. The difference is 457 km. Jaco lives 7,5 km from the restaurant and only uses his car for work. How many kilometres did he drive to deliver food from Monday to Friday? [5]
4. A packaged cellphone measures 125 mm by 75 mm. Several of these cellphones are packed into a large box for shipping. The dimensions of the box are 0,625 m \times 0,300 m. Ten layers of cellphones are stacked in the box.
 - 4.1 How many cellphones will fit in one layer? (2)
 - 4.2 If the price of one cellphone is R13 999, what is the total value of the whole box of cellphones? (2)[4]
5. A car uses 13,00 litres of fuel per 100 kilometres. How far can a family travel if the car has a capacity of 55 litres and they plan to use three tanks of fuel? [4]
6. The following shows the distances between various route markers:
A \rightarrow B: 5 250 m B \rightarrow C: 350 000 mm C \rightarrow D: 365 m
D \rightarrow E: 45 000 cm E \rightarrow F: 6,7 km F \rightarrow G: 300 000 cm
 - 6.1 Calculate the total distance travelled between markers B and F in kilometres. (6)
 - 6.2 If the odometer reading at marker B was 12349, what will the reading be at marker F? (3)
 - 6.3 A marketing company decided to sponsor R1 750 per kilometre travelled between markers A and B and between markers F and G. What donation will they make? (6)[15]
7. Skirting, a decorative strip used at the bottom of walls where the wall and the floor meet, costs R15,25/metre. A total of 12,265 km skirting is needed for a new office building. What will the skirting cost be? [3]
8. Tables are needed for a dance at the local school. It is expected that 250 people will attend the dance. Each person needs 50 cm when sitting and one table can accommodate 10 people.
 - 8.1 How many tables are needed? (3)
 - 8.2 If four people sit next to each other along one side of a table, what is the length of a table? (3)
 - 8.3 Long rows from the front to the back of the hall will be set up. The hall is 21 m long. An extra metre space must be added for each table. How many tables will fit in one row? (3)
 - 8.4 How many rows will the organisers need to set up? (3)[12]

Worksheet total: 50 marks