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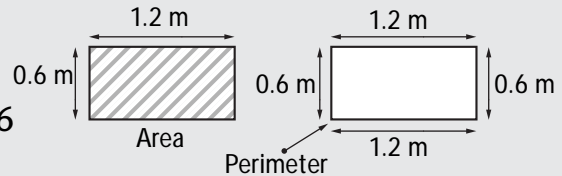
UNIT 7 Operations with Decimals

EXAMPLE

Terry wants to make a table 1.2 metres long and 0.6 metre wide. He wants to attach a rare wood edging around the table top. How many square metres would he need for the table top? How many metres of rare wood would he need for the edging?

Area of the table top : $1.2 \times 0.6 = 0.72$

Perimeter of the table top : $(1.2 + 0.6) \times 2 = 3.6$



Answer : Terry would need 0.72 m^2 of wood for the table top and 3.6 m rare wood for the edging.

Solve the problems. Show your work.

The Orange and Black Department Store is having a sale. The prices shown below are taxes included.

- ① What would be the cost of 3 shirts and 1 CD?

Answer : The cost would be _____.

- ② What is the amount Joan would save if she bought 5 CDs on sale?

Answer : _____

- ③ Can Mr Ray buy a shirt and a 17" colour TV with \$230.00?

Answer : _____

- ④ Jenny bought 2 pairs of running shoes. What was her change from \$150.00?

Answer : _____

Shirt \$14.95 \$12.37	17" Colour TV \$299.95 \$227.36
Selected CDs \$19.99 \$14.62	Ball Point Pens \$0.3 each 2 for \$0.59
Running Shoes \$86.33 \$67.99	Hi-Lighter \$0.99 \$0.79

- ⑤ Mr Winter bought a shirt, a CD and a pair of running shoes. What is the average price of these 3 items?

Answer : _____

Mary and Sally went shopping on Wednesday. They spent \$5.88 for apples, \$3.35 for lettuce, \$4.32 for carrots and \$8.37 for candies.

- ⑥ How much did they spend in all?

Answer : _____

- ⑦ How much change should they receive from a \$50 bill?

Answer : _____

- ⑧ Mary and Sally shared the bill. How much should each person pay?

Answer : _____

- ⑨ The store offers a special discount every Tuesday. Customers get \$1.05 off every \$10.00 spent. How much would Mary and Sally have paid by shopping one day earlier?

Answer : _____

- ⑩ The apples weighed 6 kg. What was the cost of 1 kg of apples?

Answer : _____

- ⑪ The candies weighed 3 kg. What was the cost of 1 kg of candies?

Answer : _____

- ⑫ They bought 5 heads of lettuce. What was the cost of 1 head of lettuce?

Answer : _____

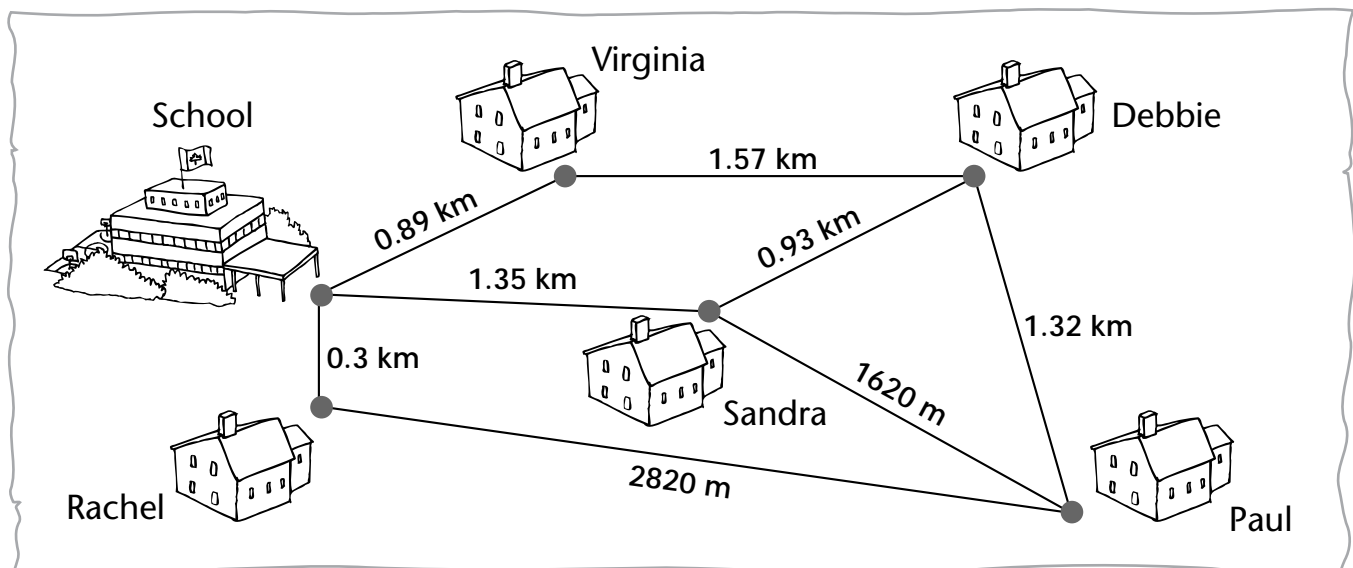
- ⑬ A 5-pound bag of potatoes costs \$6.45. An 8-pound bag of potatoes costs \$9.28. Which bag is a better buy?

Answer : _____

- To compare the prices of 2 items, find the price per unit first.



Use the map to solve the problems. Show your work.



⑭ Who lives the closest to the school? What is the distance in metres?

Answer : _____

⑮ What is the distance in kilometres between Sandra's house and Paul's house?

Answer : _____

⑯ How far is it from Debbie's house to the school if she walks by Virginia's house?

Answer : _____

⑰ What is the shortest distance in metres from Debbie's house to the school?

Answer : _____

⑱ What is the shortest distance in kilometres from Rachel's house to Debbie's house?

Answer : _____

⑲ Yesterday Sandra walked to school in 5 minutes. What was the average distance she walked per minute?

Answer : _____

- ⑳ Debbie went from home to school passing Virginia's house in 6 minutes. What was the average distance she travelled per minute?

Answer : _____

- ㉑ Rachel went from home to Debbie's house passing Paul's house in 9 minutes. What was the average distance she travelled per minute?

Answer : _____

- ㉒ If Sandra shuttles between her house and school 4 times a day, how many kilometres will she travel in 5 days?

Answer : _____

- ㉓ Virginia and Sandra decide to meet at the school and walk over to Rachel's house together. How far do they walk in total?

Answer : _____

- ㉔ On a map, each centimetre represents 0.3 km. What is the actual distance if it is 2.5 cm on the map?

Answer : _____

CHALLENGE

Mr Headley's class was going to see a play. Each student ticket costs \$3.75 and each adult ticket costs \$6.90, taxes included. If 30 or more students attended, the theatre would give them \$12.60 off and a free ticket for the teacher.

- ① If 25 students attended, how much would the students and Mr Headley have to pay in total?

Answer : _____

- ② If 35 students attended, how much would the students and Mr Headley have to pay in total?

Answer : _____