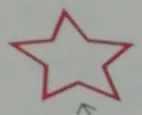
Can he buy these items?

Round off to the nearest whole numbers and get an estimated sum.

35.20	ROUNDS OFF TO	35
17.75	ROUNDS OFF TO	+18
	Estimated sum	53

ANS. Anil will not be able to buy these articles because the estimated cost of the articles is ₹ 53 and he has only ₹ 50.

EXERCISE 5.9



Colour it if you get all your sums right.

A. Find the estimated sum and compare with the actual sum.

1.
$$\begin{array}{rcl} 3.52 & \longrightarrow & 4 \\ +1.27 & \longrightarrow & +1 \\ \hline \text{actual } 5.79 & & \text{estimated } 5 \end{array}$$

2.
$$\begin{array}{rcl} 34.3 & \longrightarrow & 34 \\ +20.2 & \longrightarrow & +20 \\ \hline \text{actual } 54.5 & & \text{estimated } 54 \end{array}$$

3.
$$\begin{array}{rcl} 4.93 & \longrightarrow & 5 \\ +12.10 & \longrightarrow & +12 \\ \hline \text{actual } 17.03 & & \text{estimated } 17 \end{array}$$

4.
$$\begin{array}{rcl} 0.81 & \longrightarrow & 1 \\ +5.38 & \longrightarrow & +5 \\ \hline \text{actual } 6.19 & & \text{estimated } 6 \end{array}$$

B. Find the estimated difference and compare with the actual difference.

1.
$$\begin{array}{rcl} 9.80 & \longrightarrow & 10 \\ -5.27 & \longrightarrow & -5 \\ \hline \text{actual } 4.53 & & \text{estimated } 5 \end{array}$$

2.
$$\begin{array}{rcl} 6.5 & \longrightarrow & 7 \\ -2.7 & \longrightarrow & -3 \\ \hline \text{actual } 3.8 & & \text{estimated } 4 \end{array}$$

3.
$$\begin{array}{rcl} 5.28 & \longrightarrow & 5 \\ -2.60 & \longrightarrow & -3 \\ \hline \text{actual } 2.68 & & \text{estimated } 2 \end{array}$$

4.
$$\begin{array}{rcl} 21.9 & \longrightarrow & 22 \\ -17.3 & \longrightarrow & -17 \\ \hline \text{actual } 4.6 & & \text{estimated } 5 \end{array}$$

C. Estimate to find out if each answer is reasonable. Tick (✓) the reasonable answers.

1. $9.6 + 13.6 = 23.6$ ✓
2. $5.2 + 3.9 = 8.1$ ✗
3. $2.8 + 4.2 = 24.82$ ✗
4. $36.7 - 10.3 = 26.4$ ✗
5. $12.6 - 3.5 = 91$ ✗
6. $50 - 2.5 = 48.5$ ✗

MULTIPLYING A DECIMAL

By a whole number

EXAMPLE 19 A ball costs ₹ 8.75. How much will 4 such balls cost?

$8.75 + 8.75 + 8.75 + 8.75$ OR 8.75×4

STEP 1 Ignore the decimal point.

STEP 2 Multiply as you would multiply whole numbers.

$$\begin{array}{r} {\scriptstyle 3\ 2} \\ 875 \\ \times\ 4 \\ \hline 3500 \end{array}$$

STEP 3 Count the number of decimal places in the given decimal number.

8.75 — 2 decimal places

STEP 4 Put the decimal point in the product counting from the right so that the number of decimal places in the product is the same as in the given decimal number.

$$\begin{array}{r} 875 \\ \times\ 4 \\ \hline 35.00 \end{array}$$ 2 decimal places

ANS. 4 balls will cost ₹ 35.

EXAMPLE 20 Multiply 13.4 by 6.

13.4×6

1 decimal place, so the product will have 1 decimal place.

$$\begin{array}{r} {\scriptstyle 2\ 2} \\ 13.4 \\ \times\ 6 \\ \hline 80.4 \end{array}$$

EXAMPLE 21 Multiply 708 by 0.05.

708×0.05

2 decimal places, so the product will

mbhu, the truck driver needs to get 10 litres of diesel filled in truck every day. What would he pay for 10 litres of diesel if he in the following cities?

In Delhi, the rate of diesel per litre is _____ He will have to pay ₹ _____

In Chennai, the rate of diesel per litre is _____ He will have to pay ₹ _____

In Kolkata, the rate of diesel per litre is _____ He will have to pay ₹ _____

In Mumbai, the rate of diesel per litre is _____ He will have to pay ₹ _____

RCISE 5.10

Colour it get all sums

Put the decimal point at the correct place in the given product.

$8 \times 0.2 = 16$ → $8 \times 0.2 = 1.6$

2. $9 \times 0.03 = 27$ → $9 \times 0.03 = 0.27$

3. $1.05 \times 3 = 315$ → $1.05 \times 3 = 3.15$

$50 \times 1.3 = 650$ → $50 \times 1.3 = 65.0$

5. $16 \times 0.04 = 64$ → $16 \times 0.04 = 0.64$

6. $1.5 \times 7 = 105$ → $1.5 \times 7 = 10.5$

Find the product.

$1 \times 0.2 =$ 0.2

2. $0.2 \times 3 =$ 0.6

3. $12 \times 0.1 =$ 1.2

$0.11 \times 3 =$ 0.33

5. $10 \times 0.5 =$ 5.0

6. $0.8 \times 3 =$ 2.4

$0.06 \times 5 =$ 0.30

8. $33 \times 0.01 =$ 0.33

9. $0.22 \times 2 =$ 0.44

Multiply.

7.08×15

2. 9×3.45

6×0.641

4. 33.7×5

62.01×7

6. 48×0.08

731×0.004

8. 1.15×17

$\times 3$

10. 11×6.45

$\times 9$

12. 8×8.76

word problems

GET IT RIGHT!

$$\begin{array}{r} 7.08 \\ \times\ 15 \\ \hline 35.40 \\ 7.080 \\ \hline 42.480 \end{array}$$ ✗

$$\begin{array}{r} 7.08 \\ \times\ 15 \\ \hline 3540 \\ 7080 \\ \hline 106.20 \end{array}$$ ✓

Put the decimal point only in the final answer.