# MULTIPLYING DECIMALS BY 10, 100, 1000, ....

## Multiplying by 10

To multiply a decimal by 10, move the decimal point one place to the right,  $42 \times 10 = 1.4, 2 = 14.2$ 

### Manushing by 100

to multiply a decimal by 100, more the decimal point two places to the right,  $1.42 \times 100 = 1.42, 0 = 1.42$ 

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#### Multiplying by 1000

To multiply a decimal by 1000, move the decimal point three places to the right.

contact multiple of instants charges

#### EXERCISE 5.13

- A. Write the product.
- $1.163 \times 10 = 16.3 = 1.7638 \times 100 763.8 \times 5.942 \times 1000 = 5992$   $317.5 \times 10 = 3175 = 54.75 \times 100 = 54.75 = 2.94 \times 1000 = 3390$  $0.045 \times 10 = 0.95 = 8.0.08 \times 100 = -8 = 1.4 \times 1000 = 1000$
- B. Fill in the blanks.
- L 12.1 \* \_\_\_\_ = 121 2. 0.09 × \_\_\_\_00 = 9 3. 1.75 × \_\_\_000 = 1750

## DIVIDING DECIMALS BY 10, 100, 1000, ....

### Dividing by 10

To divide a decimal by 10, move the decimal point one place to the left. 64.5 + 10 = 6.45



## Dividing by 100

To divide a decimal by 100, move the decimal point two places to the left,  $64.5 \pm 100 = 0.645 = 0.645$ 

7 - 100 - 0.07 blow at makes parts to above the with purposes of decision places.

Dividing by 1000 To divide a decimal by 1000, move the decimal point three places to the left. Start. 64.5 - 1000 - 0.0645 - 0.0645

## EXERCISE 5.14

 $2.14.9 \pm 100 = 0.1493.173 \pm 1000$ A. Write the quotient. - 0.000 = 0.009 6. 0.9  $\div$  1000 1 55 + 10 4 0.04 + 10 = 0.004 5. 0.9 + 100 8. 16.5 + 100 = 0.165 9. 16.3 + 100 1.25 + 10 = 0.125

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 $= 0.082 \ 2. \ 3.7 \div 100 = 0.037 \ 3. \ 6.6 \div 1000 = 0.0066$ B. Fill in the blanks. 1 0.82 + 10

TO MEET -Bhaskara II (AD 1114-1185) or Bhaskaracharya was a great Indian mathematician. He was born in Bijapur, Karnataka. He was the first to explain the complete and systematic use of the decimal number system.

## POINTS TO REMEMBER -

- · Decimals are the numbers between the whole numbers.
- The decimal part after the decimal point is always less than 1 whole. w.
- » Decimals are special fractions with denominators 10, 100 and 1000.
- » On multiplying a decimal by 10, 100 and 1000, the decimal point moves to the right by one place, two places and three places respectively.

on dividing a decimal by 10, 100 and 1000, the decimal point moves to the left by one place, two places and three places respectively.