

TARGET To recognise and write decimal equivalents of tenths.

Examples



seven tenths
 $\frac{7}{10} = 0.7$



one half
 $\frac{1}{2} = \frac{5}{10} = 0.5$

A

Write the shaded part of each shape as:

- a fraction
- a decimal fraction.

1



4



2



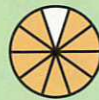
5



3



6



Write as decimals.

7

$\frac{8}{10}$

11

$\frac{1}{2}$

8

$\frac{3}{10}$

12

$\frac{7}{10}$

9

$\frac{6}{10}$

13

$\frac{2}{10}$

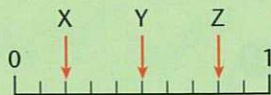
10

$\frac{1}{10}$

14

$\frac{9}{10}$

- 15 Write each letter as:
- a fraction
 - a decimal fraction.



- 16 Write half a metre as a decimal.

B

Give the value of the underlined digit.

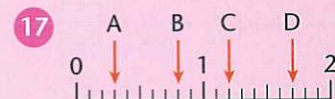
- | | |
|-----------------|------------------|
| 1 <u>2</u> .4 | 7 2 <u>3</u> .2 |
| 2 0. <u>9</u> | 8 0. <u>8</u> |
| 3 1 <u>5</u> .6 | 9 <u>6</u> .5 |
| 4 <u>3</u> 0.1 | 10 <u>1</u> 0.9 |
| 5 1. <u>2</u> | 11 0. <u>1</u> |
| 6 0. <u>3</u> | 12 4 <u>8</u> .6 |

Give the next four terms in each sequence.

- | |
|--------------------|
| 13 0.1 0.2 0.3 0.4 |
| 14 0.1 0.3 0.5 0.7 |
| 15 1.5 1.4 1.3 1.2 |
| 16 4.0 3.5 3.0 2.5 |

Write each letter as:

- a fraction or mixed number
- a decimal.

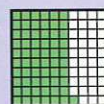


C

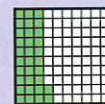
- 1 Write the shaded part of each shape as:

- a fraction
- a decimal fraction.

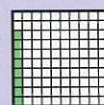
1



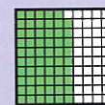
5



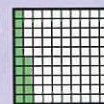
2



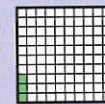
6



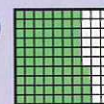
3



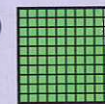
7



4



8



Copy and complete.

9 $\frac{8}{10} + \frac{7}{100} = \frac{\square}{100} = 0.87$

10 $\frac{\square}{10} + \frac{5}{100} = \frac{25}{100} = 0.25$

11 $\frac{6}{10} + \frac{\square}{100} = \frac{63}{100} = \square$

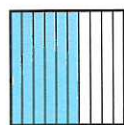
12 $\frac{7}{10} + \frac{2}{100} = \frac{\square}{100} = \square$

13 $\frac{\square}{10} + \frac{\square}{100} = \frac{49}{100} = \square$

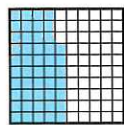
14 $\frac{\square}{10} + \frac{\square}{100} = \frac{\square}{100} = 0.16$

TARGET To recognise and write decimal equivalents of tenths and hundredths.

Examples



six tenths
 $\frac{6}{10} = 0.6$



forty-seven hundredths
 $\frac{4}{10} + \frac{7}{100} = \frac{47}{100} = 0.47$

$$\frac{1}{100} = 0.01$$

$$\frac{3}{100} = 0.03$$

$$\frac{1}{4} = \frac{25}{100} = 0.25$$

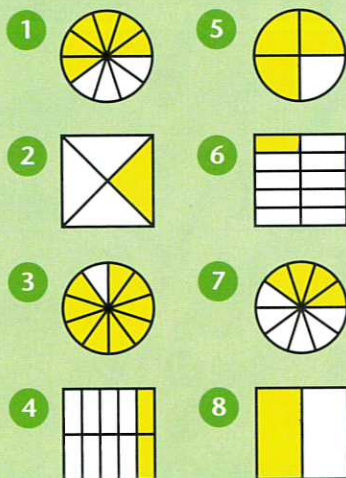
$$\frac{1}{2} = \frac{5}{10} = 0.5$$

$$\frac{3}{4} = \frac{75}{100} = 0.75$$

A

Write the shaded part of each shape as:

- a) a fraction
b) a decimal fraction.



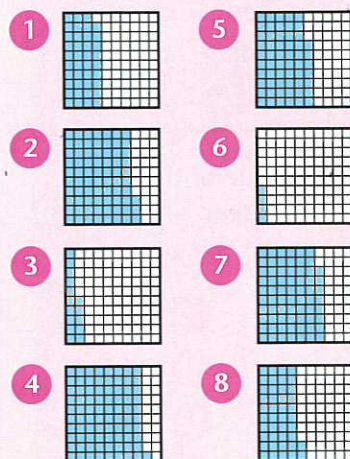
Copy and complete.

- 9 $\pounds \frac{8}{10} = \pounds \square = 80\text{p}$
10 $\pounds \frac{1}{2} = \pounds \square = \square \text{p}$
11 $\pounds \frac{\square}{10} = \pounds \square = 20\text{p}$
12 $\pounds \frac{\square}{10} = \pounds \square = 90\text{p}$
13 $\pounds \frac{\square}{10} = \pounds 0.60 = \square \text{p}$
14 $\pounds \frac{3}{4} = \pounds \square = \square \text{p}$

B

Write the shaded part of each shape as:

- a) a fraction
b) a decimal fraction.



Copy and complete.

- 9 $\frac{2}{10} + \frac{3}{100} = \frac{\square}{100} = 0.23$
10 $\frac{8}{10} + \frac{\square}{100} = \frac{85}{100} = 0.85$
11 $\frac{3}{10} + \frac{2}{100} = \frac{32}{100} = \square$
12 $\frac{\square}{10} + \frac{6}{100} = \frac{96}{100} = \square$
13 $\frac{\square}{100} = 0.09$
14 $\frac{\square}{10} + \frac{\square}{100} = \frac{78}{100} = \square$

C

Give the value of the underlined digit.

- 1 0.53 7 0.81
2 0.64 8 0.45
3 0.19 9 0.92
4 0.72 10 0.24
5 0.36 11 0.07
6 0.08 12 0.69

Write as decimals.

- 13 $\frac{33}{100}$ 19 $\frac{17}{100}$
14 $\frac{76}{100}$ 20 $\frac{89}{100}$
15 $\frac{8}{100}$ 21 $\frac{53}{100}$
16 $\frac{92}{100}$ 22 $\frac{2}{10}$
17 $\frac{4}{10}$ 23 $\frac{5}{100}$
18 $\frac{64}{100}$ 24 $\frac{72}{100}$

Write in order, smallest first.

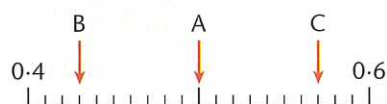
- 25 $\frac{1}{3}$, 0.13, 0.3
26 $\frac{1}{10}$, 0.9, 0.11
27 0.45, 0.5, $\frac{2}{5}$
28 0.4, 0.34, $\frac{3}{4}$

Give the answer as a decimal.

- 29 $0.2 + \frac{1}{2}$
30 $\frac{9}{10} - 0.4$
31 $0.55 + \frac{17}{100}$
32 $\frac{1}{4} - 0.1$

TARGET To recognise, write and know the place value of decimal equivalents of tenths and hundredths.

Examples



A = 0.5 The 5 has a value of $\frac{5}{10}$.

B = 0.43 The 4 has a value of $\frac{4}{10}$.

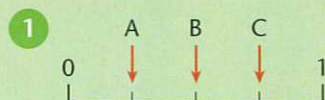
The 3 has a value of $\frac{3}{100}$.

$$C = 0.57 = \frac{5}{10} + \frac{7}{100} = \frac{57}{100}$$

A

Write each of the letters as:

- a fraction
- a decimal fraction.



Write the shaded part of each shape as:

- a fraction
- a decimal.



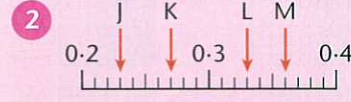
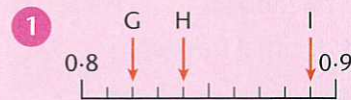
Write as decimals.

- | | |
|-------------------|-------------------|
| 9 $\frac{4}{10}$ | 13 $\frac{2}{10}$ |
| 10 $\frac{1}{2}$ | 14 $\frac{9}{10}$ |
| 11 $\frac{7}{10}$ | 15 $\frac{3}{4}$ |
| 12 $\frac{1}{4}$ | 16 $\frac{6}{10}$ |

B

Write each of the letters as:

- a fraction
- a decimal fraction.



Give the value of the underlined digit.

- | | |
|-----------------|-----------------|
| 3 0. <u>4</u> | 9 0.1 <u>2</u> |
| 4 0.7 <u>5</u> | 10 0. <u>5</u> |
| 5 0.3 <u>9</u> | 11 0.0 <u>6</u> |
| 6 0.0 <u>3</u> | 12 0.2 <u>7</u> |
| 7 0. <u>7</u> | 13 0. <u>8</u> |
| 8 0. <u>6</u> 1 | 14 0.9 <u>4</u> |

Write as decimals.

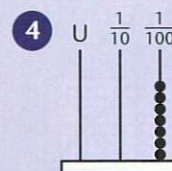
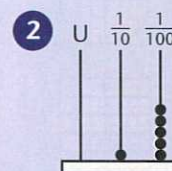
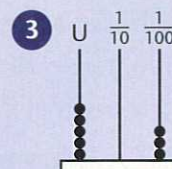
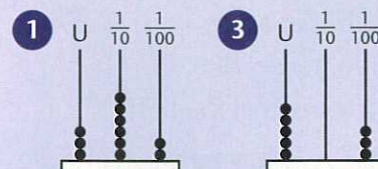
- | | |
|---------------------|---------------------|
| 15 $\frac{78}{100}$ | 19 $\frac{29}{100}$ |
| 16 $\frac{43}{100}$ | 20 $\frac{91}{100}$ |
| 17 $\frac{15}{100}$ | 21 $\frac{4}{100}$ |
| 18 $\frac{6}{10}$ | 22 $\frac{37}{100}$ |

Which is larger?

- | | |
|----------------------------|-------------------------|
| 23 $\frac{1}{4}$ or 0.14 | 25 $\frac{1}{2}$ or 0.3 |
| 24 $\frac{45}{100}$ or 0.5 | 26 $\frac{3}{4}$ or 0.8 |

C

Write the decimal shown on each abacus.



Give the value of the underlined digit.

- | | |
|-------------------|-------------------|
| 5 8- <u>3</u> 6 | 11 <u>6</u> .42 |
| 6 24. <u>9</u> | 12 2.0 <u>9</u> |
| 7 <u>3</u> .07 | 13 <u>5</u> 9.6 |
| 8 15.- <u>2</u> 3 | 14 33.7 <u>4</u> |
| 9 <u>1</u> .8 | 15 27. <u>0</u> 8 |
| 10 7. <u>1</u> 5 | 16 4.6 <u>1</u> |

Write as decimals.

- | | |
|----------------------|----------------------|
| 17 $3\frac{28}{100}$ | 23 $8\frac{57}{100}$ |
| 18 $9\frac{1}{2}$ | 24 $1\frac{3}{4}$ |
| 19 $\frac{93}{100}$ | 25 $5\frac{82}{100}$ |
| 20 $2\frac{4}{10}$ | 26 $3\frac{7}{10}$ |
| 21 $4\frac{6}{100}$ | 27 $\frac{3}{100}$ |
| 22 $6\frac{1}{4}$ | 28 $9\frac{35}{100}$ |

TARGET To find the effect of dividing 1- and 2-digit numbers by 10 and 100.

Dividing by 10, digits move one place to the right.

Dividing by 100, digits move two places to the right.

Examples

$$8 \div 10 = 0.8 \rightarrow \frac{8}{10}$$

$$38 \div 10 = 0.38 \rightarrow \frac{3}{10} + \frac{8}{100}$$

$$5 \div 100 = 0.05 \rightarrow \frac{5}{100}$$

$$95 \div 100 = 0.95 \rightarrow \frac{9}{10} + \frac{5}{100}$$

A

Use a calculator.

Copy and complete.

1 $47 \div 10 = \square$

2 $2 \div 10 = \square$

3 $55 \div 10 = \square$

4 $9 \div 10 = \square$

5 $69 \div 100 = \square$

6 $4 \div 100 = \square$

7 $52 \div 100 = \square$

8 $90 \div 100 = \square$

9 $73 \div \square = 7.3$

10 $86 \div \square = 0.86$

11 $1 \div \square = 0.01$

12 $18 \div \square = 1.8$

13 $38 \div \square = 0.38$

14 $6 \div \square = 0.6$

15 $91 \div \square = 9.1$

16 $40 \div \square = 0.4$

17 $\square \div 10 = 5.9$

18 $\square \div 10 = 0.3$

19 $\square \div 10 = 9.4$

20 $\square \div 100 = 0.1$

21 $\square \div 100 = 0.07$

22 $\square \div 100 = 0.32$

B

Do not use a calculator.

Work out

1 $57 \div 10$ 7 $96 \div 100$

2 $99 \div 10$ 8 $9 \div 100$

3 $6 \div 10$ 9 $87 \div 100$

4 $41 \div 10$ 10 $60 \div 100$

5 $4 \div 10$ 11 $53 \div 100$

6 $23 \div 10$ 12 $5 \div 100$

Do not use a calculator.

Work out and give the value of each digit.

13 $35 \div 10$ 19 $78 \div 100$

14 $8 \div 10$ 20 $2 \div 100$

15 $81 \div 10$ 21 $25 \div 100$

16 $76 \div 10$ 22 $40 \div 100$

17 $3 \div 10$ 23 $34 \div 100$

18 $42 \div 10$ 24 $7 \div 100$

Do not use a calculator.

Copy and complete.

25 $14 \div \square = 1.4$

26 $61 \div \square = 0.61$

27 $\square \div 10 = 0.8$

28 $\square \div 100 = 0.7$

Use a calculator to check your answers for questions 1 to 28.

C

Do not use a calculator.

Divide by 10.

1 364 5 407.2

2 12.6 6 848

3 1607 7 90.5

4 589 8 9213

Multiply by 10.

9 0.31 13 9.12

10 34.03 14 217.7

11 35.6 15 50.4

12 100.8 16 74.29

Divide by 100.

17 5195 21 704

18 1801 22 4279

19 567 23 640

20 2920 24 3068

Multiply by 100.

25 145.1 29 59.3

26 30.6 30 631.9

27 2.42 31 2.82

28 70.07 32 36.25

Copy and complete.

33 8 mm = $\square$ cm

34 71 cm = $\square$ m

35 2.63 m = $\square$ cm

36 4.7 cm = $\square$ mm

B

1 2	4 30	7 3	10 10
2 $\frac{9}{10}$	5 $\frac{7}{10}$	8 $\frac{8}{10}$	11 $\frac{1}{10}$
3 5	6 $\frac{3}{10}$	9 6	12 8
13 0.5 0.6 0.7 0.8			
14 0.9 1.1 1.3 1.5			
15 1.1 1.0 0.9 0.8			
16 2.0 1.5 1.0 0.5			
17 A $\frac{3}{10}$ 0.3	18 E $\frac{1}{2}$ 0.5		
B $\frac{8}{10}$ 0.8	F $2\frac{1}{2}$ 2.5		
C $1\frac{2}{10}$ 1.2	G $4\frac{1}{2}$ 4.5		
D $1\frac{7}{10}$ 1.7			

C

1 $\frac{61}{100}$ 0.61	6 $\frac{59}{100}$ 0.59	11 $\frac{3}{100}$ 0.63
2 $\frac{8}{100}$ 0.08	7 $\frac{3}{100}$ 0.03	12 $\frac{72}{100} = 0.72$
3 $\frac{15}{100}$ 0.15	8 $\frac{96}{100}$ 0.96	13 $\frac{4}{10} + \frac{9}{100} = 0.49$
4 $\frac{74}{100}$ 0.74	9 $\frac{87}{100}$	14 $\frac{1}{10} + \frac{6}{100} = \frac{16}{100}$
5 $\frac{32}{100}$ 0.32	10 $\frac{2}{10}$	

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A

1 $\frac{6}{10}$ 0.6	5 $\frac{3}{4}$ 0.75	9 £0.80	13 $\frac{6}{10}$ 60p
2 $\frac{1}{4}$ 0.25	6 $\frac{1}{10}$ 0.1	10 £0.50 50p	14 £0.75 75p
3 $\frac{9}{10}$ 0.9	7 $\frac{4}{10}$ 0.4	11 $\frac{2}{10}$ £0.20	
4 $\frac{2}{10}$ 0.2	8 $\frac{1}{2}$ 0.5	12 $\frac{9}{10}$ £0.90	

B

1 $\frac{39}{100}$ 0.39	6 $\frac{4}{100}$ 0.04	11 0.32
2 $\frac{63}{100}$ 0.63	7 $\frac{68}{100}$ 0.68	12 $\frac{9}{10}$ 0.96
3 $\frac{15}{100}$ 0.15	8 $\frac{42}{100}$ 0.42	13 $\frac{9}{100}$
4 $\frac{81}{100}$ 0.81	9 $\frac{23}{100}$	14 $\frac{7}{10} \frac{8}{100}$ 0.78
5 $\frac{57}{100}$ 0.57	10 $\frac{5}{100}$	

C

1 $\frac{3}{100}$	12 $\frac{6}{10}$	23 0.05
2 $\frac{6}{10}$	13 0.33	24 0.72
3 $\frac{9}{100}$	14 0.76	25 0.13 0.3 $\frac{1}{3}$
4 $\frac{7}{10}$	15 0.08	26 $\frac{1}{10}$ 0.11, 0.9
5 $\frac{6}{100}$	16 0.92	27 $\frac{2}{5}$ 0.45, 0.5
6 $\frac{8}{100}$	17 0.4	28 0.34, 0.4, $\frac{3}{4}$
7 $\frac{8}{10}$	18 0.64	29 0.7
8 $\frac{5}{100}$	19 0.17	30 0.5
9 $\frac{9}{10}$	20 0.89	31 0.72
10 $\frac{4}{100}$	21 0.53	32 0.15
11 $\frac{7}{100}$	22 0.2	

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A

1 A $\frac{1}{4}$ 0.25	F $\frac{8}{10}$ 0.8	7 $\frac{3}{4}$ 0.75	12 0.25
B $\frac{1}{2}$ 0.5	3 $\frac{6}{10}$ 0.6	8 $\frac{4}{10}$ 0.4	13 0.2
C $\frac{3}{4}$ 0.75	4 $\frac{1}{4}$ 0.25	9 0.4	14 0.9
2 D $\frac{1}{10}$ 0.1	5 $\frac{1}{2}$ 0.5	10 0.5	15 0.75
E $\frac{4}{10}$ 0.4	6 $\frac{3}{10}$ 0.3	11 0.7	16 0.6

B

1 G $\frac{82}{100}$ 0.82	7 $\frac{7}{10}$	18 0.6
H $\frac{84}{100}$ 0.84	8 $\frac{6}{10}$	19 0.29
I $\frac{89}{100}$ 0.89	9 $\frac{2}{100}$	20 0.91
2 J $\frac{23}{100}$ 0.23	10 $\frac{5}{10}$	21 0.04
K $\frac{27}{100}$ 0.27	11 $\frac{6}{100}$	22 0.37
L $\frac{33}{100}$ 0.33	12 $\frac{7}{100}$	23 $\frac{1}{4}$
M $\frac{36}{100}$ 0.36	13 $\frac{8}{10}$	24 0.5
3 $\frac{4}{10}$	14 $\frac{4}{100}$	25 $\frac{1}{2}$
4 $\frac{5}{100}$	15 0.78	26 0.8
5 $\frac{3}{10}$	16 0.43	
6 $\frac{3}{100}$	17 0.15	

C

1 3.62	8 $\frac{3}{100}$	15 7	22 6.25
2 0.15	9 1	16 $\frac{1}{100}$	23 8.57
3 5.03	10 $\frac{1}{10}$	17 3.28	24 1.75
4 0.07	11 6	18 9.5	25 5.82
5 $\frac{6}{100}$	12 $\frac{9}{100}$	19 0.93	26 3.7
6 $\frac{9}{10}$	13 50	20 2.4	27 0.03
7 3	14 $\frac{7}{10}$	21 4.06	28 9.35

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A

1 4.7	7 0.52	13 100	19 94
2 0.2	8 0.9	14 10	20 10
3 5.5	9 10	15 10	21 7
4 0.9	10 100	16 100	22 32
5 0.69	11 100	17 59	
6 0.04	12 10	18 3	

B

1 5.7	8 0.09	15 8.1	22 0.4
2 9.9	9 0.87	16 7.6	23 0.34
3 0.6	10 0.6	17 0.3	24 0.07
4 4.1	11 0.53	18 4.2	25 10
5 0.4	12 0.05	19 0.78	26 100
6 2.3	13 3.5	20 0.02	27 8
7 0.96	14 0.8	21 0.25	28 70

C

1 36.4	10 340.3	19 5.67	28 7007
2 1.26	11 356	20 29.2	29 5930
3 160.7	12 1008	21 7.04	30 63 190
4 58.9	13 91.2	22 42.79	31 282
5 40.72	14 2177	23 6.4	32 3625
6 84.8	15 504	24 30.68	33 0.8 cm
7 9.05	16 742.9	25 14.510	34 0.71 m
8 921.3	17 51.95	26 3060	35 263 cm
9 3.1	18 18.01	27 242	36 47 mm

A

1 11	8 50	15 10 cm	22 £5
2 8	9 6p	16 5 cm	23 £7
3 14	10 2p	17 4 m	24 £10
4 15	11 7p	18 9 m	25 a) £5, £4
5 7	12 4p	19 6 m	b) £11
6 40	13 3 cm	20 3 m	26 4
7 13	14 8 cm	21 £8	

B

1 4	8 9	15 £90	21 a) 16
2 8	9 12p	16 £21	b) 20
3 5	10 16p	17 150 ml	22 a) 12
4 15	11 10 m	18 14 cm	b) 10
5 6	12 10 m	19 110 g	c) 8
6 42	13 24 kg	20 £35	
7 3	14 28 kg		

C

1 £1.50	5 60 cm	9 £6.75	13 14
2 £1.25	6 53 cm	10 £5.30	14 63
3 £1.20	7 2.1 litres	11 430 g	
4 £1.80	8 1.05 litres	12 980 g	

A

1 5	6 5	11 £9	16 10 kg
2 8	7 10	12 6 cm	17 6
3 10 g	8 7	13 4	18 160 g
4 3 m	9 10	14 7	19 25
5 12	10 7	15 5 mm	20 40

C

1 $\frac{7}{8}$	5 $\frac{7}{12}$	9 $\frac{10}{12}$	13 $\frac{9}{12}$
2 $\frac{7}{9}$	6 $\frac{3}{12}$	10 $\frac{7}{10}$	14 $\frac{2}{6}$
3 $\frac{8}{10}$	7 $\frac{1}{10}$	11 $\frac{5}{6}$	15 $\frac{3}{8}$
4 $\frac{9}{10}$	8 $\frac{3}{8}$	12 $\frac{10}{12}$	16 $\frac{1}{9}$

A

1 4	4 10	7 $\frac{2}{6} + \frac{4}{6}$	10 $\frac{3}{4}$
2 8	5 $\frac{3}{8} + \frac{5}{8}$	8 $\frac{4}{10} + \frac{6}{10}$	11 $\frac{3}{10}$
3 5	6 $\frac{2}{3} + \frac{1}{3}$	9 $\frac{2}{7}$	12 $\frac{2}{5}$

B

1 $\frac{2}{3}$	5 $\frac{2}{6}$	9 $\frac{6}{9}$	13 $\frac{7}{12}$
2 $\frac{9}{11}$	6 $\frac{9}{10}$	10 $\frac{3}{4}$	14 $\frac{5}{8}$
3 12	7 10	11 $\frac{3}{6}$	15 $\frac{2}{5}$
4 13	8 17	12 $\frac{2}{7}$	16 $\frac{1}{10}$

C

1 $\frac{2}{7}$	5 $\frac{6}{10}$	9 $\frac{3}{4}$	13 $\frac{6}{8}$
2 $\frac{25}{100}$	6 $\frac{4}{9}$	10 $\frac{8}{11}$	14 $\frac{7}{10}$
3 $\frac{10}{6}$	7 $\frac{6}{5}$	11 $1\frac{5}{9}$	15 $1\frac{3}{5}$
4 $\frac{16}{12}$	8 $\frac{13}{8}$	12 $1\frac{2}{100}$	16 $1\frac{7}{12}$

A

1 $\frac{7}{10}$ 0.7	6 $\frac{9}{10}$ 0.9	11 0.5	15 X $\frac{2}{10}$ 0.2
2 $\frac{1}{10}$ 0.1	7 0.8	12 0.7	Y $\frac{5}{10}$ 0.5
3 $\frac{4}{10}$ 0.4	8 0.3	13 0.2	Z $\frac{8}{10}$ 0.8
4 $\frac{2}{10}$ 0.2	9 0.6	14 0.9	16 0.5 cm
5 $\frac{5}{10}$ 0.5	10 0.1		