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Decimal fractions

Place value practice with tenths

We are learning to use tenths

Example: Fill in your worksheet as shown

Example: 345.6

100	10	1	$\frac{1}{10}$
3	4	5	6

Expanded number: $300 + 40 + 5 + \frac{6}{10}$

Exercise 1

What to do

- 1) Fill in your work sheet
- 2) Then expand your number

- | | | |
|-----------|-------------|------------|
| 1) 34.5 | (2) 8.7 | (3) 2.1 |
| 4) 18.9 | (5) 23.8 | (6) 1.6 |
| 7) 0.5 | (8) 0.2 | (9) 3.9 |
| 10) 15.2 | (11) 15 | (12) 674 |
| 13) 1023 | (14) 1045.6 | (15) 300.1 |
| 16) 89.4 | (17) 0.9 | (18) 0.3 |
| 19) 104.3 | (20) 100.5 | |

Exercise 2

What to do:

Write the expanded numbers as a decimal fraction

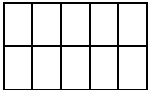
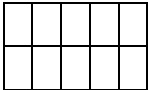
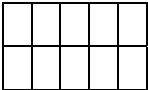
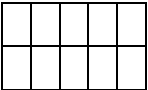
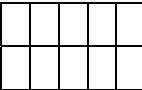
Question	100	10	1	$\frac{1}{10}$
1	4		3	1
2		8	9	
3	2	3	4	6
4	3		6	
5				8
6		7		1

Question	100	10	1	$\frac{1}{10}$
7	6		7	7
8		7	9	
9	8	2	4	6
10	3		1	
11				8
12	2	3	5	9

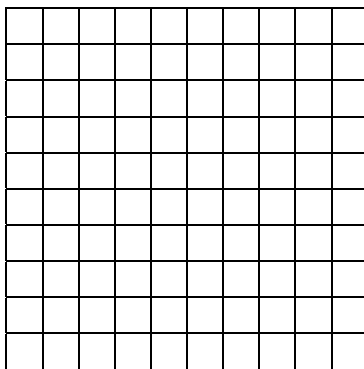
Exercise 3

On the diagram provided colour in the decimal fraction

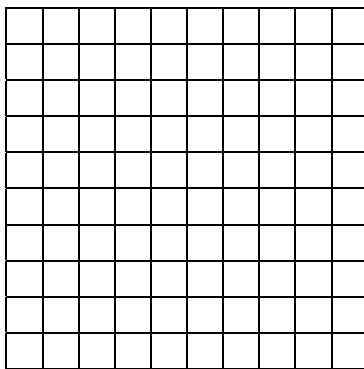
- 1) 0.6 (2) 0.1 (3) 0.4 (4) 0.7 (5) 0.8

1)  2)  3)  4)  5) 

On the diagram provided colour in the decimal fraction



- 6) a) 0.6 in red and 0.2 in blue
 b) Now write as a **fraction** the total area shaded.
 c) Now write the area not shaded as a **decimal fraction**.



- 7) a) 0.3 in red and 0.4 in blue
 b) Now write as a **fraction** the total area shaded.
 c) Now write the area not shaded as a **decimal fraction**.

Exercise 4

Write each of the following as a mixed number and a decimal

Example $\frac{12}{10} = 1\frac{2}{10} = 1.2$

1) $\frac{23}{10}$

(2) $\frac{17}{10}$

(3) $\frac{24}{10}$

4) $\frac{36}{10}$

(5) $\frac{40}{10}$

(6) $\frac{78}{10}$

7) $\frac{140}{10}$

(8) $\frac{11}{10}$

(9) $\frac{33}{10}$

10) $\frac{560}{10}$

Exercise 5

Underline the tenths in each question

1) 34.6

(2) 78

(3) 345.9

4) 1234.6

(5) 67.9

(6) 0.012

7) 59.345

(8) 12345.8

(9) 456.67

10) 12.89

(11) 0.897

(12) 21.21

Exercise 6

Put a circle around the digit in the tens place

1) 24 741

(2) 18 932

(3) 78.043

4) 567.15

(5) 4536. 407

Exercise 7

Add one tenth ($\frac{1}{10}$) to each of these numbers

1) 0.7

(2) 0.3

(3) 12.0

4) 24.4

(5) 12.6

(6) 168.4

7) 2145.2

(8) 0.9

(9) 23.9

Exercise 8

Take one tenth ($\frac{1}{10}$) from each of these numbers

- | | | |
|------------|----------|-----------|
| 1) 39.6 | (2) 32.1 | (3) 123.7 |
| 4) 0.89 | (5) 45.6 | (6) 56.1 |
| 7) 286.2 | (8) 39.1 | (9) 8.2 |
| 10) 478.30 | | |

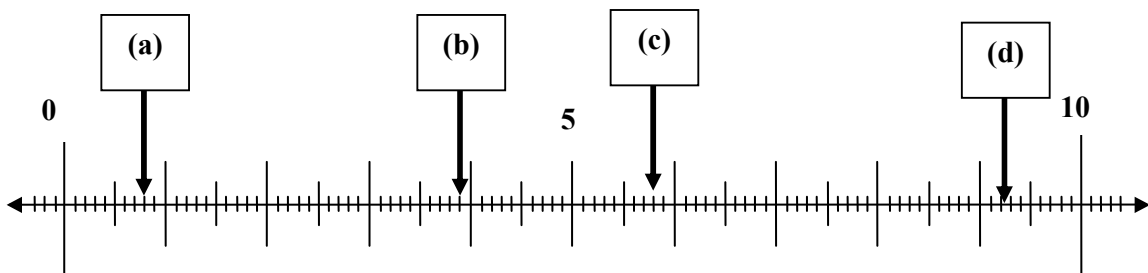
Exercise 9

- 1) What digit is in the tens place in the number 345.6?
- 2) What digit is in the tenths place in the number 5.68?
- 3) Write a 3 digit number with 6 in the tens place
- 4) Write a 4 digit number with 6 in the tenths place

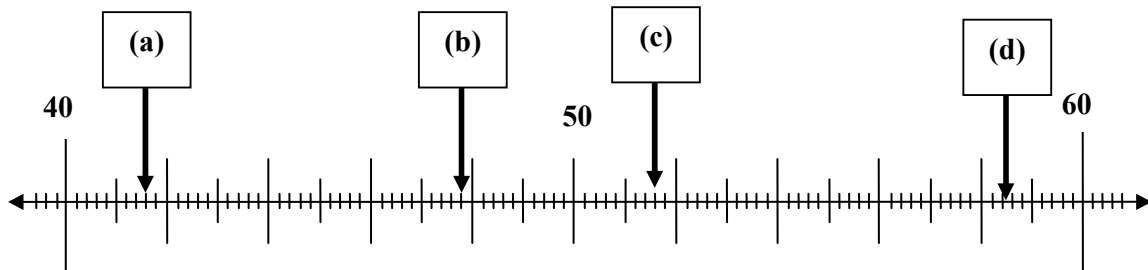
Exercise 10

On each of the number lines below, the 4 arrows are pointing to different numbers. Write down what numbers they are.

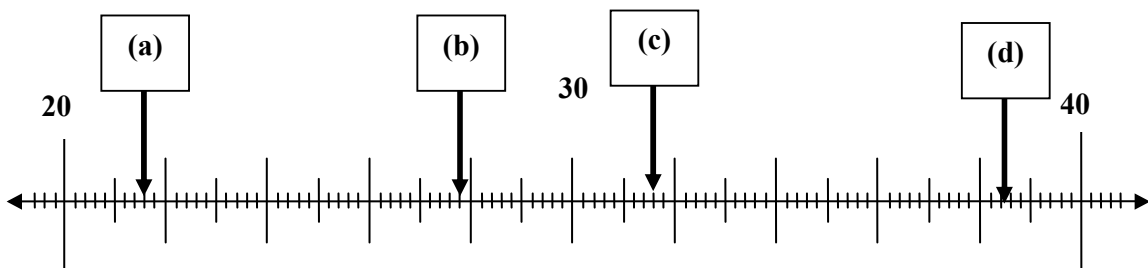
1)



2)



3)



Place Value Practice (Tenths)

Answers

Exercise 1

Question	1000	100	10	1	$\frac{1}{10}$	Expanded number
1.			3	4	5	$30 + 4 + \frac{5}{10}$
2				8	7	$8 + \frac{7}{10}$
3				2	1	$2 + \frac{1}{10}$
4			1	8	9	$18 + \frac{9}{10}$
5			2	3	8	$20 + 3 + \frac{8}{10}$
6				1	6	$1 + \frac{6}{10}$
7					5	$\frac{5}{10}$
8					2	$\frac{2}{10}$
9				3	9	$3 + \frac{9}{10}$
10			1	5	2	$10 + 5 + \frac{2}{10}$
11			1	5		15
12		6	7	4		$600 + 70 + 4$
13	1	0	2	3		$1000 + 20 + 3$
14	1	0	4	5	6	$1000 + 40 + 5 + \frac{6}{10}$
15		3	0	0	1	$300 + \frac{1}{10}$
16			8	9	4	$80 + 9 + \frac{4}{10}$
17					9	$\frac{9}{10}$
18					3	$\frac{3}{10}$
19		1	0	4	3	$100 + 4 + \frac{3}{10}$
20		1	0	0	5	$100 + \frac{5}{10}$

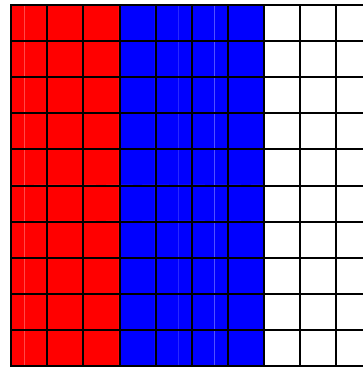
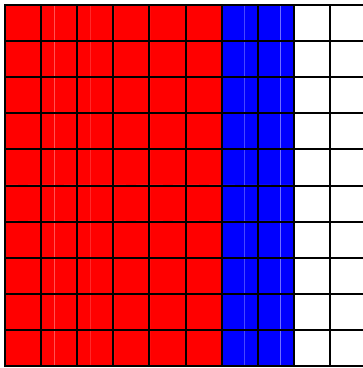
Exercise 2

- | | | | |
|----------|----------|-----------|------------|
| 1) 403.1 | (2) 89 | (3) 234.6 | (4) 306 |
| 5) 0.8 | (6) 70.1 | (7) 607.7 | (8) 79 |
| 9) 824.6 | (10) 301 | (11) 0.8 | (12) 235.9 |

Exercise 3



On the diagram provided colour in the decimal fraction



- 8) a) 0.6 in red and 0.2 in blue
 b) $\frac{8}{10}$ or $\frac{4}{5}$
 c) 0.2

- 9) a) 0.3 in red and 0.4 in blue
 b) $\frac{7}{10}$
 c) 0.3

Exercise 4

- | | | |
|--|---|---|
| 1) $\frac{23}{10} = 2\frac{3}{10} = 2.3$ | (2) $\frac{17}{10} = 1\frac{7}{10} = 1.7$ | (3) $\frac{24}{10} = 2\frac{4}{10} = 2.4$ |
| 4) $\frac{36}{10} = 3\frac{6}{10} = 3.6$ | (5) $\frac{40}{10} = 4$ | (6) $\frac{78}{10} = 7\frac{8}{10} = 7.8$ |
| 7) $\frac{140}{10} = 14$ | (8) $\frac{11}{10} = 1\frac{1}{10} = 1.1$ | (9) $\frac{33}{10} = 3\frac{3}{10} = 3.3$ |
| 10) $\frac{560}{10} = 56$ | | |

Exercise 5

Underline the tenths in each question

- | | | |
|--------------------|---------------------|---------------------|
| 1) 34. <u>6</u> | (2) 78 | (3) 345. <u>9</u> |
| 4) 1234. <u>6</u> | (5) 67. <u>9</u> | (6) 0. <u>0</u> 12 |
| 7) 59. <u>3</u> 45 | (8) 12345. <u>8</u> | (9) 456. <u>6</u> 7 |
| 10) 12. <u>8</u> 9 | (11) 0. <u>8</u> 97 | (12) 21. <u>2</u> 1 |

Worksheet for exercise one

Question	1000	100	10	1	$\frac{1}{10}$	Expanded number
1.						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						