



**THIRD SPACE
LEARNING**

Fraction to Decimal Worksheet

Ratio and Proportion

Grades 6 to 8

Skill Questions

Name:

Date:

1 Convert $\frac{3}{4}$ to a decimal number.

Answer

2 Convert $\frac{2}{5}$ to a decimal number.

Answer

3 Convert $\frac{3}{10}$ to a decimal number.

Answer

4 Convert $\frac{17}{100}$ to a decimal number.

Answer

5 Convert $\frac{11}{20}$ to a decimal number.

Answer

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6 Convert $\frac{6}{25}$ to a decimal number.

Answer

7 Convert $1\frac{1}{5}$ to a decimal number

Answer

8 Convert $2\frac{23}{100}$ to a decimal number.

Answer

9 Convert $\frac{9}{4}$ to a decimal number.

Answer

10 Convert $\frac{17}{10}$ to a decimal number.

Answer

Applied Questions

- 11 Milyka converted the fraction $\frac{3}{2}$ to a decimal and wrote 1.5. Jordan converted the fraction $\frac{3}{2}$ to a decimal and wrote 3.2. Who is correct and why?

Answer

- 12 What is the value of n in the expression?

$$\frac{4}{n} = 0.8$$

Answer

- 13 a) Convert the fractions to decimals.

$$\frac{45}{100}, \frac{3}{8}, \frac{7}{20}, \frac{9}{10}, \frac{7}{8}$$

- b) List the decimals in order from least to greatest.

Answer

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- 14** Below are the steps Billy took to convert the fraction $\frac{3}{20}$ to a decimal. Identify where he made an error and make the correction.

1. $\frac{9}{20} = 20 \div 9$
2. $20 \div 9 = 2.22\ldots$
3. $\frac{9}{20} = 2.22\ldots$

Answer

- 15** a) Convert $\frac{4}{9}$ and $\frac{7}{9}$ to decimals.
b) What do you notice about each of the decimals?
c) Without dividing, what do you think $\frac{2}{9}$ is as a decimal?

Answer

Answers

Question number	Question	Answers	Standard
1	Convert $\frac{3}{4}$ to a decimal number.	0.75	7.NS.2d
2	Convert $\frac{2}{5}$ to a decimal number.	0.4	7.NS.2d
3	Convert $\frac{3}{10}$ to a decimal number.	0.3	7.NS.2d
4	Convert $\frac{17}{100}$ to a decimal number.	0.17	7.NS.2d
5	Convert $\frac{11}{20}$ to a decimal number.	0.55	7.NS.2d
6	Convert $\frac{6}{25}$ to a decimal number.	0.24	7.NS.2d
7	Convert $1\frac{1}{5}$ to a decimal number.	1.2	7.NS.2d
8	Convert $2\frac{23}{100}$ to a decimal number.	2.23	7.NS.2d
9	Convert $\frac{9}{4}$ to a decimal number.	2.25	7.NS.2d
10	Convert $\frac{17}{10}$ to a decimal number.	1.7	7.NS.2d
11	Milyka converted the fraction $\frac{3}{2}$ to a decimal and wrote 1.5. Jordan converted the fraction $\frac{3}{2}$ to a decimal and wrote 3.2. Who is correct and why?	Milyka is correct because if you divide 3 by 2 the answer is 1.5.	7.NS.2d
12	What is the value of n in the expression? $\frac{4}{n} = 0.8$	$n = 5$	7.NS.2d

Fraction to Decimal Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard																																																																								
13	a) Convert the fractions to decimals. $\frac{45}{100}$, $\frac{3}{8}$, $\frac{7}{20}$, $\frac{9}{10}$, $\frac{7}{8}$ b) List the decimals in order from least to greatest.	a) $\frac{45}{100} = 0.45$ $\frac{3}{8} = 0.375$ $\frac{7}{20} = 0.35$ $\frac{9}{10} = 0.9$ $\frac{7}{8} = 0.875$ b) 0.35, 0.375, 0.45, 0.875, 0.9	7.NS.2d																																																																								
14	Below are the steps Billy took to convert the fraction $\frac{3}{20}$ to a decimal. Identify where he made an error and make the correction. 1. $\frac{9}{20} = 20 \div 9$ 2. $20 \div 9 = 2.22...$ 3. $\frac{9}{20} = 2.22...$	Billy divided the numerator into the denominator instead of dividing the denominator into the numerator. $\frac{9}{20} = 9 \div 20$ $9 \div 20 = 0.45$ $\frac{9}{20} = 0.45$	7.NS.2d																																																																								
15	a) Convert $\frac{4}{9}$ and $\frac{7}{9}$ to decimals. b) What do you notice about each of the decimals? c) Without dividing, what do you think $\frac{2}{9}$ is as a decimal?	a) <table><tr><td></td><td>0</td><td>.</td><td>4</td><td>4</td><td>4</td></tr><tr><td>9</td><td>4</td><td>.</td><td>0</td><td>0</td><td>0</td></tr><tr><td></td><td>3</td><td>6</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>4</td><td>0</td><td></td><td></td></tr><tr><td></td><td></td><td>3</td><td>6</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>4</td><td>0</td><td></td></tr></table><table><tr><td></td><td>0</td><td>.</td><td>7</td><td>7</td><td>7</td></tr><tr><td>9</td><td>7</td><td>.</td><td>0</td><td>0</td><td>0</td></tr><tr><td></td><td>6</td><td>3</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>7</td><td>0</td><td></td><td></td></tr><tr><td></td><td></td><td>6</td><td>3</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>7</td><td>0</td><td></td></tr></table> b) They are both repeating decimals and it's the numerator of each fraction that is the number that is repeating. c) $\frac{2}{9} = 0.2222....$		0	.	4	4	4	9	4	.	0	0	0		3	6						4	0					3	6						4	0			0	.	7	7	7	9	7	.	0	0	0		6	3						7	0					6	3						7	0		7.NS.2d
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