

Incoming 7th Grade Standard– Summer Math Packet

Unit: NUMBER RELATIONSHIPS and COMPUTATION

Objective: Multiply fractions and mixed numbers and express answers in simplest form.

Multiplying Fractions and Mixed Numbers:

- 1) Change Mixed numbers to improper fractions
- 2) Multiply numerators
- 3) Multiply denominators
- 4) Simplify if necessary

EX: multiply $\frac{1}{2} \times \frac{3}{8}$

- 1) **No mixed numbers**
- 2) $\frac{1}{2} \times \frac{3}{8} = \frac{3}{16}$
- 3) $\frac{1}{2} \times \frac{3}{8} = \frac{3}{16}$
- 4) (can't be simplified)

EX: Multiply $\frac{1}{3} \times 6\frac{3}{7}$

- 1) $6\frac{3}{7} = \frac{45}{7}$ as an improper fraction
- 2) $\frac{1}{3} \times \frac{45}{7} = \frac{45}{21}$
- 3) $\frac{1}{3} \times \frac{45}{7} = \frac{45}{21}$
- 4) Simplified: $\frac{45}{21} = 2\frac{1}{7}$

1.) $\frac{5}{6} \times \frac{1}{2} =$

2.) $\frac{9}{10} \times \frac{2}{3} =$

3.) $2\frac{1}{2} \times 1\frac{2}{5} =$

4.) $2\frac{1}{4} \times 3\frac{1}{3} =$

5.) Belinda lives $1\frac{1}{2}$ times further from school than Jamie does. If Jamie lives $4\frac{1}{5}$ miles from school, how far does Belinda live?

6.) Mario practices his guitar every day for $\frac{3}{4}$ of an hour. How long does he practice for week?



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Unit: NUMBER RELATIONSHIPS and COMPUTATION

Objective: Determine 10, 20, 25, or 50 percent of a whole number.

Example: Determine 25% of 40

Method 1:

Change the percent to a fraction and multiply

$$25\% = \frac{1}{4}$$

$$\frac{1}{4} \times 40 = 10$$

Therefore 25% of 40 is 10.

Method 2:

Change the percent to a decimal and multiply

$$25\% = 0.25$$

$$0.25 \bullet 40 = 10.00$$

Therefore 25% of 40 is 10.

$$\begin{array}{r} 40 \\ \times 0.25 \\ \hline 200 \\ +800 \\ \hline 10.00 \end{array}$$

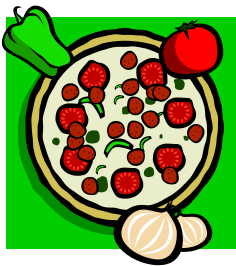
1.) Determine 20% of 65.

2.) Determine 50% of 120.

3.) Determine 25% of 20.

4.) Determine 10% of 35.

5.) 20% of the 250 students ate pizza for lunch. How many students ate pizza?



6.) Nia saved 10% on her CD purchase. If the CD originally cost \$24.90, how much did she save?

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Answer Key

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Answer	I got it on the 1 st try!	I got it with corrections.	I have no idea.
1. $x + \frac{1}{2}$			
2. $x - 0.7$			
3. $0.21 - x$			
4. $x + 46$			

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Answer	I got it on the 1 st try!	I got it with corrections.	I have no idea.
1. 165			
2. 108			
3. 24			
4. 75			
5. 18			
6. 61			

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Answer	I got it on the 1 st try!	I got it with corrections.	I have no idea.
1. 95			
2. 43			
3. 7			
4. 256			
5. 8			
6. 46.8			

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Answer	I got it on the 1 st try!	I got it with corrections.	I have no idea.
1. $g = 7$			
2. $s = 41$			
3. $m = 7$			
4. $k = 14$			
5. $w = 15.75$			
6. $g = 53.5$			

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Answer	I got it on the 1 st try!	I got it with corrections.	I have no idea.
1. $x = 9$			
2. $k = 72$			
3. $b = 0.71$			
4. $h = 38.85$			
5. $m = 7.06$			
6. $p = 34.71$			

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Answer	I got it on the 1 st try!	I got it with corrections.	I have no idea.
1. Mean: 5 Median: 5 Mode: 6 Range: 7			
2. Mean: 13 Median: 13 Mode: 7 Range: 14			
3. Mean: 30 Median: 30 Mode: 32 Range: 22			
4. Mean: 143 Median: 148 Mode: 157 Range: 33			

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Answer	I got it on the 1 st try!	I got it with corrections.	I have no idea.
1. 75			
2. -15			
3. -10			
4. 290			
5. -3			
6. -12			

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Answer	I got it on the 1 st try!	I got it with corrections.	I have no idea.
1. 0.95			
2. 0.875			
3. 0.187			
4. 0.675			
5. 0.75			
6. 0.6			

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Answer	I got it on the 1 st try!	I got it with corrections.	I have no idea.
1. 85%			
2. $\frac{21}{25}$			
3. 75%			
4. $\frac{9}{10}$			
5. 96%			
6. $\frac{39}{50}$			

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Answer	I got it on the 1 st try!	I got it with corrections.	I have no idea.
1. $\frac{4}{5}$			
2. $\frac{5}{6}$			
3. $\frac{2}{3}$			
4. $\frac{4}{1}$			
5. $\frac{1}{2}$			
6. $\frac{9}{11}$			

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Answer	I got it on the 1 st try!	I got it with corrections.	I have no idea.
1. $\frac{5}{12}$			
2. $\frac{3}{5}$			
3. $3\frac{1}{2}$			
4. $7\frac{1}{2}$			
5. $6\frac{3}{10}$			
6. $5\frac{1}{4}$			

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Answer	I got it on the 1 st try!	I got it with corrections.	I have no idea.
1. 13			
1. 60			
2. 5			
3. 3.5			
4. 50			
5. \$2.49			