Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

UNIT 1 LESSON 7

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| --- | --- |
| AIM: | SWBAT divide with decimals. |

**THINK ABOUT IT!**

Calculate the quotient for each expression below using any strategy. Do not use remainders. Perform a check for reasonableness.

1. 814.2 ÷ 2 b) 942 ÷ 4

Key Point

|  |
| --- |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ can be used to place the   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in a quotient. |

**Interaction with New Material**

**Ex. 1)** Evaluate the expression below 1089 ÷ 18

**Ex. 2)** Daryl bought twenty-five jumbo bags of M&Ms for $108.50. Each jumbo bag costs the same amount. How much does one jumbo bag of M&Ms cost?

**PARTNER PRACTICE**

* CFS for top quality work
  + Problem is annotated with margin notes to provide additional meaning
  + Model is drawn to represent known and unknown information
  + Equation is written
  + Estimate is completed
  + All calculations are shown
  + Check is performed
  + Answer statement is written
  + Work is organized and neat

|  |
| --- |
| *Bachelor Level* |

1. Evaluate each expression
   1. 4,421 ÷ 2
   2. 644.8 ÷ 26

|  |
| --- |
| *Master Level* |

2) Marco says that the quotient of 185.92 and 56 is 33.2. Which statement explains Marco’s error?

* 1. The decimal is placed incorrectly in the quotient. It should be placed after the 2 (332.) because 56 goes into 18,592 about 300 times.
  2. The decimal is placed incorrectly in the quotient. It should be placed before the first 3 (0.332) because 56 is about one third of 185.92.
  3. The decimal is placed incorrectly in the quotient. It should be placed between the threes (3.32) because 185.92 divided by 56 is about 3, which makes a quotient of 33.3 unreasonable.
  4. There is no error in Marco’s answer.

1. The fish tank pictured below can hold up to 1,004.5 cubic feet of water. What is the length of the fish tank?

x ft.

7 ft.

7 ft.

**Check for Understanding**

What is the quotient of 26.25 and 35?

a) 0.75

b) 7.5

c)9.8

d) 13.33

**INDEPENDENT PRACTICE**

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|  |
| --- |
| *Bachelor Level* |

1. Evaluate each expression below
   1. 2,515.2 ÷ 48
   2. 31,218 ÷ 132

|  |
| --- |
| *Master Level* |

1. Kareem and his eleven siblings and cousins are buying their grandparents a present for $1,020.96. If they split the money equally how much does each person have to pay?

***Show your work.***

1. A plane travels 3,625.2 miles in 18 hours. The pilot told the passengers that the plane is traveling 20.14 miles per hour. Is he correct? How do you know? If he is incorrect, what is the actual speed per hour?

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1. Evaluate the expression below:

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| --- |
| *PhD Level* |

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| **Item** | **Cost** |
| Hammer | $12.95 |
| Screw driver | $9.99 |
| Nails | $0.05 each |
| Rope | $2.15 per foot |
| Molding | $4.99 per foot |

1. Tamieka needs to save money to go to the hardware store and buy some tools and resources for a home-improvement project she wants to work on. She needs to buy four dozen nails, a hammer, 7 yards of rope, and 36 inches of molding for the wall. If she saves for the next 14 weeks, how much money does she need to save each week to meet her goal? Round your answer to the nearest penny.

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EXIT TICKET**

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| Self-assessment | I mastered the learning objective today. | I am almost there. | Need more practice and feedback. |
| Teacher feedback | You mastered the learning objective today. | You are almost there. | You need more practice and feedback. |

1. A plane travels 8,052 miles in 24 hours. If the plane travels at about the same speed each hour, how fast did the plane travel on average in miles per hour?
2. Explain how you know the answer you got for problem 1 is reasonable.

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