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7	Agile	mind	Topic	5/6	Study	Guide	

Name: Period:

Decimal Operations (FA5-Obj1)

Remember: Add/Sub- Line up decimal point, Multiply- Add decimal in product, Divide- Bring decimal straight up after

turning divisor into whole number.

$$0.21.12 = 211.2$$

1.) 15.678 + 242.3

3.) Bill bought a box of cereal for \$3.25, a mega candy bar for \$1.79, spaghetti sauce for \$4.83, and a package of meat for \$5.17. He also bought two packages of cookies for \$3.41 each. He spent \$ 21.86 total for all the items. He received \$3.14 in change. If all items are non-tax items, Bill started with \$ 25.00

4.) 2.56 x 15.4

6.) $66.12 \div 1.2$

39.424

2423,05

55,1

7.) A group of friends share a container of popcorn at the movies. It costs \$3.15 to buy the popcorn, and \$0.85 for each refill. If they spend \$7.40, how many times did the group of friends refill their popcorn?

4.25 : 0.85 = 5 nefills

Dividing Fractions (FA5-Obj2)

Remember: Add/Sub- Find common denominator, Multiply- Turn to improper, then Multiply straight across, Divide- Turn to improper, then Keep Change Flip. ***All fractions must be simplified!!

Example:
$$13 - 4\frac{4}{5} - 12\frac{5}{5} - 4\frac{4}{5} = 8\frac{1}{5}$$
* borrowing from whole #

8.)
$$15\frac{8}{10} + 7\frac{2}{3}$$

3.)
$$15\frac{8}{10} + 7\frac{2}{3}$$
 9.) $9 - 6\frac{4}{5}$ 10.) $3\frac{1}{4}x^{2} - 1\frac{9}{12}$ 11 $15\frac{24}{30} + 7\frac{20}{30} = 8\frac{2}{5} - 6\frac{4}{5}$ $3\frac{2}{12} - 1\frac{2}{13} = 22\frac{44}{30} = 23\frac{44}{30} = 23\frac{44}{30}$

9.)
$$9 - 6\frac{4}{5}$$

10.)
$$3\frac{1}{4}$$
, $\frac{3}{12}$

11.)
$$5\frac{1}{3} \cdot 4$$

$$\frac{16}{3}$$
, $\frac{4}{1} = \frac{64}{3} \in 21\frac{1}{3}$

12.)
$$2\frac{3}{4} \cdot 3\frac{1}{3}$$

13.) Erin is running a marathon. At the 18 mile mark she has been running for 23 hours. How fast is she running in miles per hour?

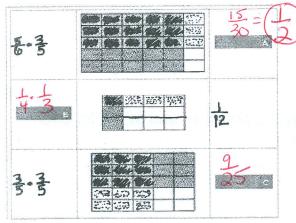
A. 9 miles per hour

B.
$$6\frac{3}{4}$$
 miles per hour

14.) Joanna needs several pieces of pipe that are $1\frac{1}{8}$ inches long. She has a pipe that is $11\frac{1}{2}$ inches long. How many $1\frac{1}{8}$ inch pieces can she cut 11/2-1/8 > 23-9 > 23.8 = 184 = 10 # = 10 = so about 10 pieces

from the $11\frac{1}{2}$ long pipe?

15.) Fill in the blanks to match the area model to its problem or answer. The black shaded region represents the product.



T

Answer Key

Tile
$$\frac{6}{10}$$

Tile3
$$\frac{1}{2}$$

Tile5
$$\frac{3}{30}$$

Tile6 $\frac{9}{25}$