Math Grade 8 Unit 3: Fractions REVIEW SHEET Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class:\_\_\_\_\_\_\_

1. What is the multiplication statement for :

A) $\frac{1}{6}+ \frac{1}{6}+\frac{1}{6}$ STATEMENT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B) $\frac{2}{5}+ \frac{2}{5}+\frac{2}{5}$ $+ \frac{2}{5}+\frac{2}{5}$ STATEMENT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Covert the following:

A) improper fraction of 4$ \frac{2}{7}$ \_\_\_\_\_\_\_\_\_\_\_\_

B) mixed number for $\frac{23}{5}$ \_\_\_\_\_\_\_\_\_\_\_\_\_

C) simplest form of $\frac{72}{40}$ \_\_\_\_\_\_\_\_\_\_\_\_\_

3. Identify the fraction modelled below.

|  |  |
| --- | --- |
| MODELPROPER FRACTION \_\_\_\_\_\_\_\_  | MODELIMPROPER FRACTION:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_MIXED FRACTION:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

4. A) What is the product of fractions shown here ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ statement = solution

B) What is the multiplication statement for the counters below? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5 A) Model 3$ ×\frac{2}{5}$ with the model of your choice.

B) Draw the area model for 3 2/5 X 1 1/3 THEN state your answer. ANSWER:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C) Draw a model of your choice for $\frac{4}{5} ÷ \frac{1}{2}$ then state your answer. ANSWER:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Create a word problem which uses: $\frac{1}{3} × \frac{5}{9}$. State your answer.

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7. Estimation:

A) What fraction is a good estimation for the number on this number line?

 <-----|---------------------------------------------------------|-----------------------------------------------------|->

 0 A B C D 1 E 2

|  |  |
| --- | --- |
| **FRACTION** | **LETTER** |
| $$\frac{14}{21}$$ |  |
| $$\frac{1}{13}$$ |  |
| $$\frac{7}{13}$$ |  |
| $$\frac{19}{10}$$ |  |
| $$\frac{20}{22}$$ |  |

B) What is a good estimation for $\frac{15}{32} × \frac{19}{20}$ ? \_\_\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_\_\_ ≐ \_\_\_\_\_\_\_\_\_\_\_

 Product of estimates final estimation

8. Complete the following table.

|  |  |  |
| --- | --- | --- |
| PROBLEM | OPERATION NECESSARY | Evaluate each problem. Show workings. |
| A) Eugene had 1/5 cup of milk. He added more milk so he had his glass 13/15 cup full. How much did he add? |  |  |
| B) George has 4/9 of a pizza. He ate 3/4 of this. What fraction did he eat?  |  | What fraction did he eat?   |
| C) Bob had 1/3 of gallon of paint. He added 3/4 of a different colour. How much paint does he have?  |  |  |
| D) Violet had 4/5 of a cake. She shared it with 7 of her friends. How much does each person get?  |  |  |

 9. Evaluate.

|  |  |
| --- | --- |
| A) $ \frac{2}{3} + \frac{6}{12}$  | E) 6$ \frac{1}{4} - 2 \frac{3}{3}$  |
| B) $ \frac{4}{10} × \frac{30}{24}$  | F) $1 \frac{3}{5} × 4$ |
| C) $\frac{4}{7} ÷ \frac{16}{35}$  | G) $2 \frac{3}{7} ÷ 1\frac{2}{5}$ |
| D) $ \frac{57}{20} - \frac{3}{10} ×4$  | H) $\frac{2}{5} + $ $ \frac{2}{3}÷ \frac{8}{18}$    |

10. Gloria completed the following questions on her test. Are her solutions correct? Explain your answers.

A) $\frac{2}{2}+ \frac{7}{8}= \frac{9}{10}$

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B) $ \frac{7}{10}- \frac{1}{5}= \frac{6}{3}$

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C) $ \frac{3}{10} ÷ 4= \frac{3}{40}$

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D) $4 \frac{1}{3} × 2 \frac{5}{6}=6 \frac{5}{18}$

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UNIT 3 Fractions MIDTERM Review Sheet ANSWER KEY

1. A) Statement 3 x 1/6 SOLUTION ½ B) Statement 5 x 2/5 Solution 2
2. A) 16/7 B) 4 3/5 C)9/5 or 1 4/5
3. A) 4/7 B) 4/3 C) 1 1/3
4. A) ½ of 1/2 =1/4 B) ¾ x 4/7 = 3/7
5. A) 6/5 B) 4 8/15 C) 8/5 or 1 3/5
6. Have 5/9 of a cake. Eat 1/3 of IT. How much did you eat? Answer 5/27
7. A) 2/3 0 ½ almost 2 just less than 1 CABED B) ½ x 1 = 1/2
8. A) subtraction 13/15 – 1/5 = 2/3 B) mult ¾ x 4/9 = 1/3 C) addition 1/3 + ¾ = 13/12

D) division 4/5 divided by 7 = 4/35

9. A) 7/6 or 1 1/6 B) ½ C) 5/4 or 1 ¼ D) 33/20 E) 39/12 or 3 ¼ F) 32/5 or 6 2/5

G) 85/49 H) 19/10 or 1 9/10

10. A) NO B) NO C) NO D) NO