Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade 8

Unit 3: Operations with Fractions

Test Practice

1. Solve using a picture.

a) 4 × $\frac{1}{3}$ = b) $\frac{2}{5}$ × $\frac{1}{3}$ =

2. Estimate 2$\frac{1}{5}×4$ . Show your work.

3. Solve.

a) $\frac{3}{4}×\frac{1}{4}=$ b) 2$\frac{3}{4}×\frac{1}{5}$ =

4. There are 750 people at the hockey game. $\frac{1}{3} $ of the people are men. Which expression would you use to find out how many men are at the hockey game?

 a) 750 – $\frac{1}{3}$

 b) 750 ÷ $\frac{1}{3}$

 c) $\frac{1}{3}×750$

 d) $\frac{1}{3}+ 750$

5. Solve.

a) $\frac{3}{4}÷\frac{5}{8}=$ b) $\frac{2}{3}÷1\frac{1}{9}=$

6. Estimate $4\frac{1}{6}÷\frac{1}{2}$ and explain your thinking.

7. Draw a picture or use a number line to clearly show why $\frac{1}{2} $divided by $\frac{1}{4}$ = 2

8. Draw a picture or use a number line to clearly show why $\frac{1}{2}$ divided by 3 = $\frac{1}{6}$

9. How many $\frac{1}{4}$ L are in 3$\frac{1}{2}$ L?

10. Evaluate.

a) $\frac{4}{5}-\frac{1}{2}×\frac{2}{3}$ b) $2\frac{2}{3}÷(\frac{1}{2}+\frac{2}{3}×\frac{1}{2})$

11. There were 800 people at the theatre. $\frac{3}{8}$ were men, $\frac{1}{2}$ were women, and the rest were children. How many children were at the theatre? Show your work.

12. Place the numbers 7, 3, 9, and 8 in the boxes to get the least possible product.

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13. Chris filled 5 glasses with $\frac{5}{8}$ of a litre of juice in each glass. Estimate about how much juice Chris used. Explain using words, pictures and /or numbers.

14. Elaine has $\frac{5}{6}$ of a tank of gas. Each day, she uses $\frac{1}{8}$ of a tank of gas to go to town and back. How many trips can she travel until the tank is empty?

15. The quotient of two fractions is$ \frac{9}{10}$ . What could the two fractions be?

16. Sam and Dave evaluated this expression $\frac{5}{9}+\frac{2}{3}×\frac{1}{2}$ . Sam got $\frac{8}{9}$ and Dave got $\frac{11}{18}$ . Who is correct? What mistake did the other person make?

17. Create and solve a word problem where you would use the following expression 3$ \frac{1}{2}×4\frac{1}{6 }$ .