Grade Eight Review for Final – Unit 3

<u>Multiple Choice Section</u>

1. What is the <u>best estimate</u> for $6\dfrac{1}{12}\times 8\dfrac{7}{9}$?

    A)   48   B)   50   C)   52   D)   54

2. Tim has a piece of rope $7\dfrac{1}{5}$ m long. If he cuts it into pieces each $\dfrac{3}{5}$ m in length, how many pieces will he have?

    A)   11   B)   12   C)   13   D)   14

3. In Zoe's class, $\dfrac{2}{3}$ of the students have brown eyes. $\dfrac{1}{4}$ of these students have brown hair. What fraction of the class has brown eyes and brown hair?

    A) $\dfrac{1}{12}$ B) $\dfrac{1}{6}$ C) $\dfrac{3}{8}$ D) $\dfrac{11}{12}$

4. What is the best estimate for $11\dfrac{8}{9}\div 3\dfrac{1}{7}$?

    A) $\dfrac{1}{4}$ B) $\dfrac{1}{3}$ C) 3   D) 4

5. Charlie bought 8 cans of apple juice at the store. Each can contained $1\dfrac{1}{4}$ L of juice. How many litres of apple juice did Charlie buy?

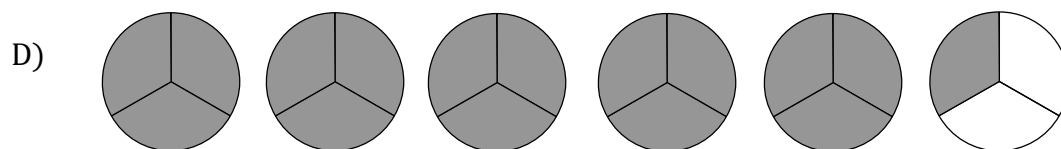   A) $6\dfrac{2}{5}$ B) $9\dfrac{1}{4}$ C) 10   D) 22
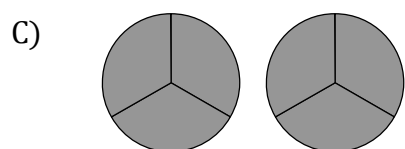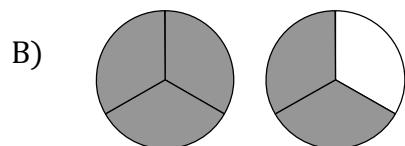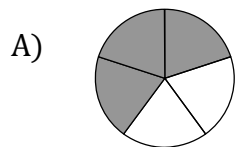
6. Calculate. $\dfrac{8}{3} \div \dfrac{1}{9}$

    A) $\dfrac{1}{24}$ B) $\dfrac{8}{27}$ C) $\dfrac{27}{8}$ D) 24

7. Christina has $\dfrac{2}{3}L$ of lemonade. She wants to divide it equally between her four friends. How much lemonade will each friend receive?

    A) $\dfrac{1}{6}L$ B) $\dfrac{3}{8}L$ C) $2\dfrac{2}{3}L$ D) $6L$

8. Divide $\dfrac{3}{4} \div \dfrac{6}{7}$.

    A) $\dfrac{9}{14}$ B) $\dfrac{18}{28}$ C) $\dfrac{7}{8}$ D) $\dfrac{8}{7}$

9. In Bill's math class there are 24 students and $\dfrac{2}{3}$ are girls. How many girls are in Bill's math class?

    A) 4   B) 8   C) 12   D) 16

10. What is the reciprocal of $2\dfrac{1}{3}$?

    A) $\dfrac{3}{7}$

    B) $\dfrac{7}{3}$

    C) $2\dfrac{3}{1}$

    D) 5

11. Which diagram illustrates the solution to $5 \times \dfrac{1}{3}$?

A)

B)

C)

D)

LONG ANSWER SECTION

12. Evaluate. $8 - \left(\dfrac{1}{2} + \dfrac{1}{3} \right) \div \dfrac{1}{9}$ Express your answer in lowest terms.

13. a) Simplify: $\dfrac{2}{3} \times \left(\dfrac{5}{8} + \dfrac{1}{4} \right) \div \dfrac{7}{6}$

b) Six friends bought 3 pizzas. Each person ate $\dfrac{3}{8}$ of a pizza. How much pizza was left over?

14. Simplify $\left(\dfrac{5}{6} + \dfrac{2}{3} \right) + \dfrac{4}{5} \div \dfrac{1}{2}$

15. Simplify $\left(\dfrac{3}{5} \right) \div \left(\dfrac{1}{4} + \dfrac{2}{5} \right)$