

Grade 7 Math Test
Unit 5 Operations with Fractions

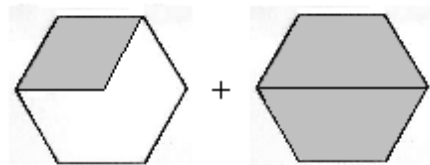
Name: _____

Part A: Multiple Choice. Circle the best answer.

1. Which addition statement best represents the model below?

1. _____

7N5.1



- A. $1 + 1 = 2$
B. $\frac{1}{3} + 1 = \frac{3}{2}$
C. $\frac{1}{3} + 1 = 1\frac{1}{3}$
D. $\frac{1}{3} + \frac{2}{2} = \frac{2}{3}$

2. What is the answer to $\frac{3}{10} + \frac{3}{10}$ in **lowest terms**?

2. _____

7N5.2

- A. $\frac{0}{10}$
B. $\frac{3}{10}$
C. $\frac{6}{10}$
D. $\frac{3}{5}$

3. Find a common denominator for the fractions $\frac{1}{5}$ and $\frac{2}{3}$.

3. _____

7N5.3

- A. 3
B. 5
C. 8
D. 15

4. What is $\frac{6}{18}$ written in lowest terms?

4. _____

7N5.4

- A. $\frac{6}{18}$
B. $\frac{3}{9}$
C. $\frac{1}{3}$
D. $\frac{1}{2}$

5. Add $\frac{2}{3} + \frac{5}{9}$. Reduce your answer if necessary.

5. _____

7N5.6

- A. $\frac{11}{9}$
- B. 1
- C. $1\frac{1}{9}$
- D. $\frac{7}{12}$

6. What is the difference between $\frac{7}{9} - \frac{5}{9}$? Reduce answer if necessary.

6. _____

7N5.8

- A. 2
- B. 0
- C. $\frac{2}{0}$
- D. $\frac{2}{9}$

7. If Samantha eats $\frac{2}{3}$ of the pizza and Devon eats $\frac{1}{4}$ of the pizza, how much more pizza does Samantha eat than Devon?

7. _____

7N5.9

- A. $\frac{2}{3}$
- B. $\frac{5}{12}$
- C. $\frac{1}{1}$
- D. $\frac{4}{12}$

8. If Sandra drinks $1\frac{3}{4}$ L of Crystal Lite and then drinks $2\frac{2}{3}$ L of milk, what is the total amount of liquids that she drank?

8. _____

7N5.15

- A. 4 L
- B. 3 L
- C. $3\frac{5}{12}$ L
- D. $4\frac{5}{12}$ L

9. What is $2\frac{7}{8} - 1\frac{1}{4}$? Reduce your answer if necessary.

9. _____

7N5.14 A. $1\frac{6}{4}$

B. $1\frac{3}{2}$

C. $1\frac{5}{8}$

D. $1\frac{2.5}{4}$

7N5.10 10. What addition equation best represents the model below?

10. _____



A. $1\frac{3}{4} + 1\frac{3}{8} = 3\frac{1}{8}$

B. $1\frac{3}{4} + 1\frac{3}{8} = 2\frac{1}{8}$

C. $4\frac{3}{4} + 8\frac{3}{8} = 12\frac{1}{8}$

D. $4\frac{3}{4} + 8\frac{3}{8} = 12\frac{6}{12}$

Part B: Complete all questions and be sure to show all your workings.

1. Use a model of your choice to find each solution. State the answer. (4 marks)

7N5.7 A) $\frac{3}{8} + \frac{1}{4}$

B) $2\frac{2}{3} - 1\frac{1}{6}$

7N5.12

2. Calculate each answer. Reduce your answer if necessary. (3 marks)

A) $\frac{1}{6} + \frac{2}{6}$

B) $\frac{5}{12} - \frac{1}{6}$

7N5.2
&
7N5.6

3. Estimate, then calculate each operation. Reduce your answer if necessary. (6 marks)

7N5.7
& 5.9

$\frac{3}{8} - \frac{1}{8}$	$\frac{2}{9} + \frac{5}{6}$
Estimate	Estimate
Actual Solution	Actual Solution

4. This week, Mark practiced piano for $2\frac{1}{2}$ hours, played soccer for $5\frac{1}{4}$ hours and talked on the phone for $1\frac{1}{3}$. What was the total amount of time spent on these activities? Reduce your answer if necessary. (3 marks)

7N5.15

5. Find the answer and be sure to put your fraction in lowest terms. (8 marks)

A) $\frac{2}{9} + 1\frac{5}{6}$

B) $3 + 1\frac{1}{5}$

7N5.13
&
7N5.14

C) $2 - \frac{3}{4}$

D) $2\frac{4}{7} - 1\frac{2}{3}$