

Name: _____

Date: _____

Envision Math Topic 9 Practice Test

1. Circle lines to match each expression on the left to an equivalent expression on the right.

$$\frac{2}{3} + \frac{1}{3} + \frac{1}{3}$$

$$\frac{1}{3} + \frac{1}{3}$$

$$\frac{2}{3} + \frac{2}{3}$$

$$\frac{2}{3} + (\frac{1}{3} + \frac{2}{3})$$

$$(\frac{2}{3} + \frac{1}{3}) + \frac{2}{3}$$

$$\frac{1}{3} + \frac{2}{3}$$

$$\frac{1}{3} + \frac{1}{3}$$

$$\frac{2}{3} + \frac{2}{3}$$

2. On Friday, $\frac{1}{4}$ of the students in class were absent. What fraction of the students were NOT absent?



3. Leticia spent some time working on his history homework. Then, he spent $\frac{1}{4}$ hour working on his Spanish homework. Leticia spent 8 hours on homework. What fraction of an hour did Leticia spend on history?

- ☐ $\frac{1}{4}$ hour
☐ $\frac{1}{8}$ hour
☐ $\frac{1}{16}$ hour
☐ $\frac{2}{16}$ hour

4. Select all the expressions that show a way to decompose $\frac{2}{3}$.

☐ $\frac{1}{3}$

☐ $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$

☐ $\frac{2}{3} = \frac{2}{3}$

☐ $\frac{2}{3} = \frac{2}{3} + \frac{1}{3}$

☐ $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$

5. For questions 5a–5d, choose Yes or No or tell if $\frac{2}{3}$ will make each equation true.

5a. $\frac{2}{3} + \square = \frac{2}{3}$ ☐ Yes ☐ No

5b. $\frac{2}{3} - \square = 1$ ☐ Yes ☐ No

5c. $1 - \frac{2}{3} + \square = 1 - \frac{2}{3}$ ☐ Yes ☐ No

5d. $1 - \frac{2}{3} - \square = 1 - \frac{2}{3}$ ☐ Yes ☐ No

6. Use benchmark fractions to estimate sums and differences less than or greater than 1. Write each expression in the correct answer space.

Less Than 1	Greater Than 1

$$\frac{1}{10} + \frac{1}{10}$$

$$1\frac{2}{3} - \frac{1}{3}$$

$$\frac{1}{3} - \frac{1}{3}$$

$$\frac{1}{2} - \frac{1}{2}$$

$$\frac{1}{3} + \frac{1}{3}$$

$$1\frac{1}{3} + \frac{2}{3}$$

Envision Math 4th Lesson 12 Practice Test

Kathleen Armour



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