Comparing Fractions

LCM (Least Common Multiple)

- To compare fractions, find the LCM so you can get common denominators.

> < =

$\frac{2}{3} \bigcirc \frac{5}{7}$

3 6 9 12 15 18 (21)

7 14 (21) 28 35 42

x7 ↓ ↓ x3

$\frac{14}{21} < \frac{15}{21}$

Butterfly (shortcut we learned after all the hard work)

- cross-multiply and compare

2 x 7 = 14

3 x 5 = 15

$\frac{2}{3} < \frac{5}{7}$

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- To compare fractions, find the LCM so you can get common denominators.

$\frac{2}{3} \bigcirc \frac{5}{7}$

$\times 7$ $\times 3$

$\frac{14}{21} < \frac{15}{21}$

Butterfly (shortcut we learned after all the hard work)

- Cross-multiply and compare

$5 \times 7 = 14$

$3 \times 5 = 15$

Name _____

Module 4 Assessment

Vocabulary

Choose the best term from the box.

Vocabulary
benchmark
numerator
simplest form

1. A _____ is a known size or amount that helps you understand another size or amount. (p. 113)

Concepts and Skills

Compare. Write <, > or =. TEKS 4.3.D

2. $\frac{7}{8} \bigcirc \frac{7}{12}$

3. $\frac{10}{12} \bigcirc \frac{5}{6}$

4. $\frac{1}{2} \bigcirc \frac{3}{10}$

5. $\frac{1}{4} \bigcirc \frac{2}{3}$

6. $\frac{2}{3} \bigcirc \frac{4}{7}$

7. $\frac{5}{14} \bigcirc \frac{10}{14}$

8. $\frac{1}{4} \bigcirc \frac{4}{7}$

9. $\frac{6}{8} \bigcirc \frac{1}{3}$

Write the fractions in order from least to greatest. TEKS 4.3.D

10. $\frac{2}{3}, \frac{3}{4}, \frac{1}{6}$

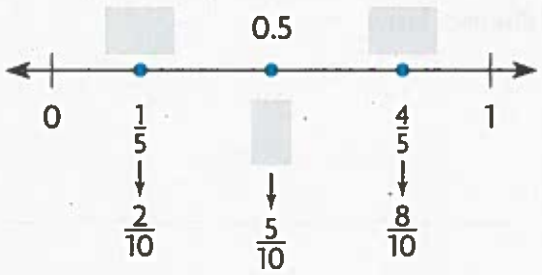
_____

11. $\frac{7}{10}, \frac{4}{5}, \frac{1}{2}, \frac{4}{12}$

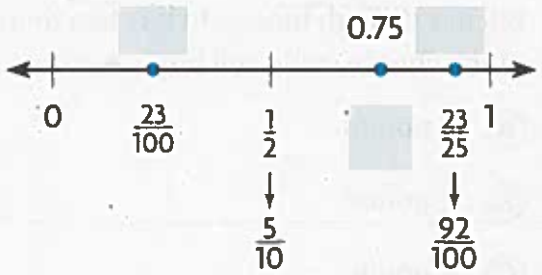
_____

Write the fraction or decimal to show their distances from zero. TEKS 4.3.G

12.



13.



Fill in the bubble completely to show your answer.

TEXAS Test Prep

14. Paco needs more than $\frac{3}{8}$ yard of twine to build a model ship. How much twine could he buy? TEKS 4.3.D

Ⓐ $\frac{3}{10}$ yard

Ⓑ $\frac{1}{4}$ yard

Ⓒ $\frac{3}{5}$ yard

Ⓓ $\frac{1}{8}$ yard

15. Rachel, Nancy, and Diego were in a fishing competition. Rachel's fish was $\frac{7}{8}$ foot long, Nancy's fish was $\frac{1}{4}$ foot long, and Diego's fish was $\frac{1}{2}$ foot long. Which shows the correct comparison of the lengths of Rachel and Diego's fish? TEKS 4.3.D

Ⓐ $\frac{1}{4}$ foot $= \frac{7}{8}$ foot

Ⓑ $\frac{1}{2}$ foot $> \frac{7}{8}$ foot

Ⓒ $\frac{1}{2}$ foot $= \frac{7}{8}$ foot

Ⓓ $\frac{1}{2}$ foot $< \frac{7}{8}$ foot

16. Amy needs $\frac{6}{8}$ gallon of fruit juice to make punch. She needs an equal amount of sparkling water. How much sparkling water does she need? TEKS 4.3.D

Ⓐ $\frac{2}{3}$ gallon

Ⓑ $\frac{1}{2}$ gallon

Ⓒ $\frac{2}{8}$ gallon

Ⓓ $\frac{3}{4}$ gallon

17. Bill has enough money to buy less than $\frac{1}{2}$ pound of cheese. How much cheese could Bill buy? TEKS 4.3.D

Ⓐ $\frac{4}{6}$ pound

Ⓑ $\frac{5}{8}$ pound

Ⓒ $\frac{1}{3}$ pound

Ⓓ $\frac{3}{4}$ pound

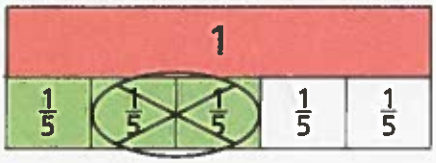
Name _____

Module 5 Assessment

Concepts and Skills

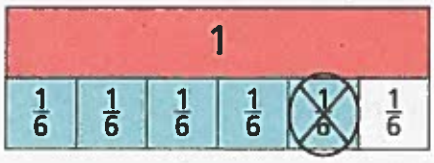
Use the model to write an equation. TEKS 4.3.E

1.



_____

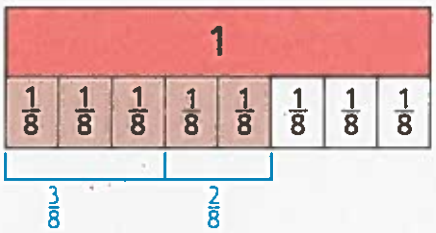
2.



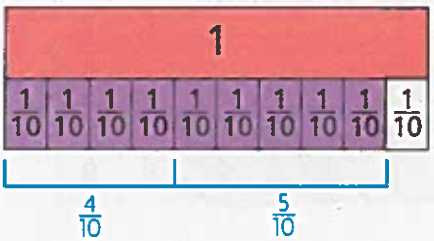
_____

Use the model to find the sum. TEKS 4.3.E

3. $\frac{3}{8} + \frac{2}{8} =$ _____

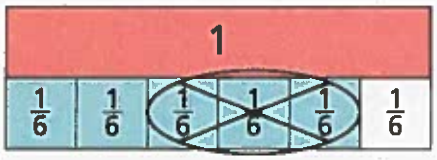


4. $\frac{4}{10} + \frac{5}{10} =$ _____

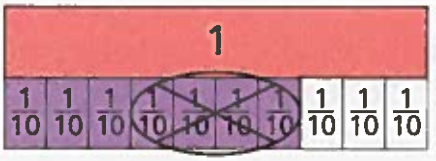


Use the model to find the difference. TEKS 4.3.E

5. $\frac{5}{6} - \frac{3}{6} = \frac{\square}{6}$



6. $\frac{7}{10} - \frac{4}{10} = \frac{\square}{10}$



Find the sum or difference. Use fraction strips or a number line. TEKS 4.3.E

7. $\frac{9}{12} - \frac{7}{12} =$ _____

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

9. $\frac{1}{5} + \frac{3}{5} =$ _____

10. $\frac{2}{6} + \frac{2}{6} =$ _____

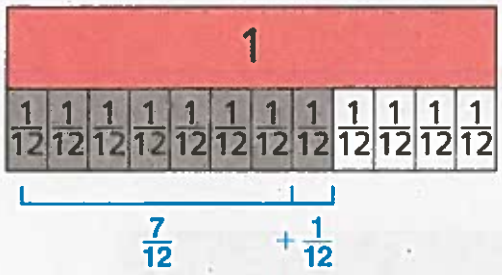
11. $\frac{4}{4} - \frac{2}{4} =$ _____

12. $\frac{7}{8} - \frac{4}{8} =$ _____

Fill in the bubble completely to show your answer.

TEXAS Test Prep

13. Tyrone mixed $\frac{7}{12}$ quart of red paint with $\frac{1}{12}$ quart of yellow paint. How much paint does Tyrone have in the mixture? TEKS 4.3.E



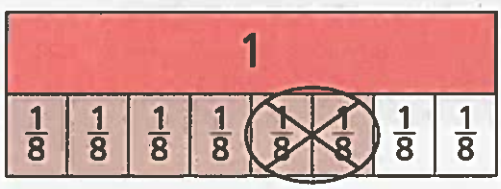
Ⓐ $\frac{8}{24}$ quart

Ⓑ $\frac{6}{12}$ quart

Ⓒ $\frac{8}{12}$ quart

Ⓓ $\frac{12}{12}$ quart

14. Jorge lives $\frac{6}{8}$ mile from school and $\frac{2}{8}$ mile from a ballpark. How much farther does Jorge live from school than from the ballpark? TEKS 4.3.E



Ⓐ $\frac{4}{16}$ mile

Ⓑ $\frac{4}{8}$ mile

Ⓒ $\frac{8}{8}$ mile

Ⓓ 8 miles

15. Eloise hung artwork on $\frac{2}{5}$ of a bulletin board. She hung math papers on $\frac{1}{5}$ of the same bulletin board. What part of the bulletin board does not have artwork or math papers? Use models to help. TEKS 4.3.E

Ⓐ $\frac{1}{10}$

Ⓑ $\frac{3}{5}$

Ⓒ $\frac{3}{10}$

Ⓓ $\frac{2}{5}$