أسئلة مراجعة وفق الهيكل الوزاري ريفيل

تاريخ نشر الملف على موقع المناهج: 2024-02-28 06:53:05 | اسم المدرس: School Dalma

التواصل الاجتماعي بحسب الصف الرابع

روابط مواد الصف الرابع على تلغرام

التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات

المزيد من الملفات بحسب الصف الرابع والمادة رياضيات في الفصل الثاني

مذكرة تحميعة أسئلة وفق الهيكل الوزاري	1
حل أسئلة اختبار وفق الهيكل الوزاري	2
نموذج الهيكل الوزاري، ريفيل المسار العام	3
نموذج الهيكل الوزاري بريدج المسار العام	4
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EMIRATES SCHOOLS ESTABLISHMENT
مؤسسـة الإمـارات للتعليـم المدرسـي

United Arab Emirates

1. Use basic division facts, the relationship between multiplication and division, and place value to divide multiples of 10, 100, or 1,000.

How can you complete the equations?

1. 36 ones ÷ 9 = _____ ones

   36 tens ÷ 9 = _____ tens

   36 _____ ÷ 9 = 4 hundreds

2. 180 ÷ 3 = _____

   1,800 ÷ 3 = _____

   18,000 ÷ 3 = _____

What is the quotient? Use a related multiplication equation to solve.

3. 48 tens ÷ 6 = ?

   6 × 8 _____ = 48 tens

   So, 48 tens ÷ 6 = _____

4. 35,000 ÷ 5 = ?

   5 × _____ = 35,000

   So, 35,000 ÷ 5 = _____

5. 560 ÷ 7 = _____

6. 360 ÷ 4 = _____

2. Use the equal share meaning of division to divide 2-digit dividends by 1-digit divisors.

7. There are 91 students in the school chorus. The chorus conductor puts 7 students in each row. How many rows of students are there?

8. Four students equally share 68 binder clips. How many binder clips does each student receive?

9. Sasha scores 96 points in 6 games of basketball. She scores the same number of points in each game. How many points does she score in each game?

10. Raul uses 72 nails to build 3 drawers. He uses the same number of nails for each drawer. How many nails does he use for each drawer?

11. **Error Analysis** Marcie says 84 ÷ 4 = 20. Do you agree or disagree? Explain your reasoning.

12. **Extend Your Thinking** Mr. Smith has 92 apples to distribute equally into 4 bins. If he distributes 1 apple to each of the 4 bins 10 times, how many apples will be left to distribute?

3. Use partial quotients to divide 3-digit dividends by 1-digit divisors.

7. Will stacked 135 quarters. He put 9 quarters into each stack. How many stacks did he make?

8. Jeremy put 256 baseball cards into 8 binders. Each binder had the same number of baseball cards. How many baseball cards were in each binder?

9. There are 210 workers at the football stadium to help clean up after the game. The workers are divided into 5 equal teams. How many workers are on each team?

10. Deborah is making bead necklaces for her friends. She uses 306 beads for 9 necklaces. She uses the same number of beads for each necklace. How many beads does Deborah use for each necklace?

11. **Error Analysis** Marsha says she can use 10 as the first three partial quotients when finding 261 ÷ 9. Do you agree or disagree? Explain your reasoning.

4. Use partial quotients to divide 4-digit dividends by 1-digit divisors.

What is the quotient? Use the partial quotients to solve.

1. $2{,}200 \div 2 =$ _____

$$
\begin{array}{r}
2{,}200 \\
-\ 2{,}000 \quad (2 \times 1{,}000) \\
\hline
200 \\
-\ 200 \quad (2 \times 100) \\
\hline
0
\end{array}
$$

2. $4{,}840 \div 4 =$ _____

$$
\begin{array}{r}
4{,}840 \\
-\ 4{,}000 \quad (4 \times 1{,}000) \\
\hline
840 \\
-\ 400 \quad (4 \times 100) \\
\hline
440 \\
-\ 400 \quad (4 \times 100) \\
\hline
40 \\
-\ 40 \quad (4 \times 10) \\
\hline
0
\end{array}
$$

What is the quotient? Use partial quotients to solve.

3. $9{,}300 \div 3 =$ _____

4. $3{,}240 \div 3 =$ _____

5. $3{,}216 \div 2 =$ _____

6. $8{,}350 \div 5 =$ _____

5. Determine how to interpret the remainder of a division equation based on the of the problem.

How can you solve the problem? Show your work.

1. Caleb makes fruit smoothies. He has 26 strawberries. If Caleb puts 4 strawberries into each smoothie, how many smoothies can he make? How many strawberries will be left over?

2. There are 48 ounces of water in a pitcher. How many 10-ounce bottles can Sven fill using the pitcher?

3. There are 125 chairs to put in rows. Each row can have 20 chairs. How many rows are needed for all the chairs?

4. Herbert has 147 postcards. He places 6 postcards on a page in his album. How many pages will he need for all his postcards?

5. Two families will share 5 oranges at a picnic. How many oranges will each family receive if they share all the oranges equally?

For exercises 6 and 7, choose the answer that will correctly describe the effect of the remainder for each situation.

6. **STEM Connection** A truck can hold 8 crates of building materials. How many trips will the truck need to make to get 65 crates to the construction site?

   A. The remainder is the solution.

   B. The remainder can be ignored.

   C. The remainder forces the quotient to be the next whole number.

   D. The remainder is partitioned as a fraction.

7. A ribbon is 25 inches long. How many 6-inch pieces can be made?

    A. The remainder is the solution.

    B. The remainder can be ignored.

    C. The remainder forces the quotient to be the next whole number.

    D. The remainder is partitioned as a fraction.

8. A van can hold 9 people. How many trips are needed to get 33 people to the airport?

9. There are 94 baseball cards to share equally among 4 friends. How many baseball cards will each friend get?

10. Error Analysis Roger says a remainder always forces the answer to be the next whole number. How can you explain to Roger that his statement is not always true?

6. Use fraction models to recognize equivalent fractions and explain their equivalence by reasoning about the number of parts in the fraction and the number of parts in the whole.
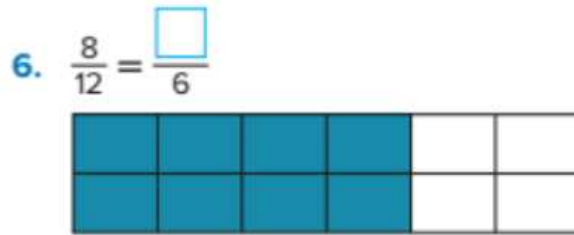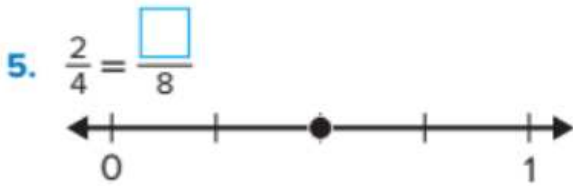
Are the fractions equivalent?

1. $\frac{2}{6}$ and $\frac{4}{12}$

    _____

2. $\frac{4}{10}$ and $\frac{3}{6}$

    _____

3. $\frac{3}{8}$ and $\frac{1}{3}$

    _____

4. $\frac{8}{10}$ and $\frac{4}{5}$

    _____

Use the representation to find the missing number in the equivalent fractions.

5. $\frac{2}{4} = \frac{\square}{8}$

0   1

6. $\frac{8}{12} = \frac{\square}{6}$

6. Which fractions are equivalent to $\frac{3}{6}$? Choose all that apply.

(Lessons 8-1, 8-2)

A. $\frac{1}{2}$

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

C. $\frac{2}{5}$

D. $\frac{6}{12}$

E. $\frac{5}{8}$

8. Which fraction is equivalent to $\frac{4}{10}$? (Lesson 8-1)

A. $\frac{2}{5}$ B. $\frac{6}{12}$

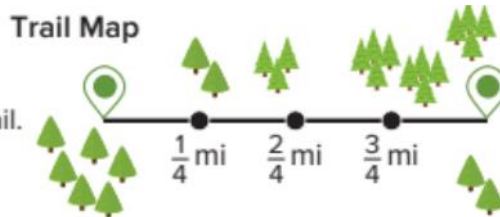C. $\frac{2}{8}$ D. $\frac{4}{5}$

7. Use number line representations with different intervals and use multiplication and division to generate equivalent fractions.

Learn

Evan has hiked $\frac{9}{12}$ mile on a trail.

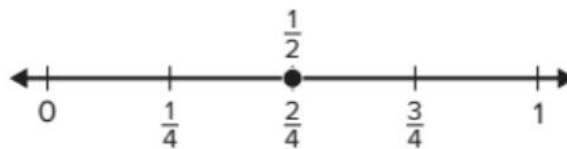Carlos has hiked $\frac{1}{2}$ mile on the same trail.

How can you determine where each person is on the trail?

Trail Map

$\frac{1}{4}$ mi $\frac{2}{4}$ mi $\frac{3}{4}$ mi

You can multiply the numerator and denominator by 2 to generate an equivalent fraction for $\frac{1}{2}$.
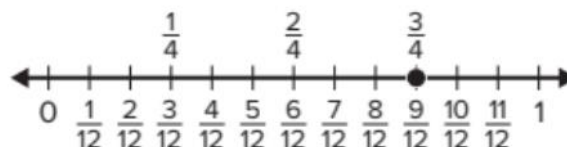
$\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$

Carlos is at $\frac{2}{4}$ mile on the trail.

0    $\frac{1}{4}$ $\frac{2}{4}$ $\frac{3}{4}$ 1

You can divide the numerator and denominator by 3 to generate an equivalent fraction for $\frac{9}{12}$.

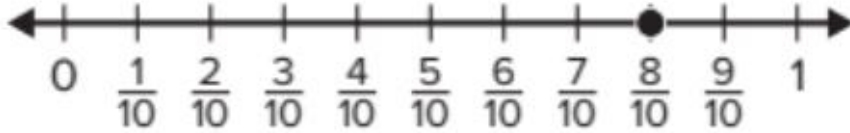$\frac{9 \div 3}{12 \div 3} = \frac{3}{4}$
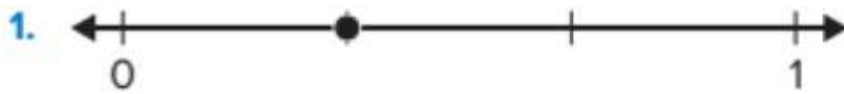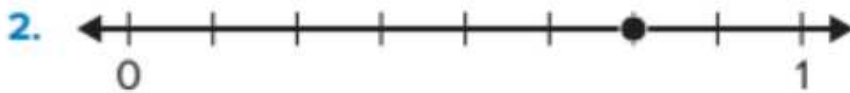
Evan is at $\frac{3}{4}$ mile on the trail.

0   $\frac{1}{12}$ $\frac{2}{12}$ $\frac{3}{12}$ $\frac{4}{12}$ $\frac{5}{12}$ $\frac{6}{12}$ $\frac{7}{12}$ $\frac{8}{12}$ $\frac{9}{12}$ $\frac{10}{12}$ $\frac{11}{12}$ 1

What fraction is equivalent to $\frac{8}{10}$? Use the number line and multiplication or division to explain your answer.

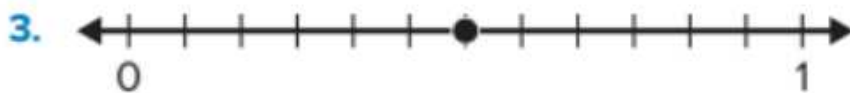$$0 \quad \frac{1}{10} \quad \frac{2}{10} \quad \frac{3}{10} \quad \frac{4}{10} \quad \frac{5}{10} \quad \frac{6}{10} \quad \frac{7}{10} \quad \frac{8}{10} \quad \frac{9}{10} \quad 1$$

Use the number line to find an equivalent fraction.

1.
0   1

$\frac{1}{3} = \dfrac{\square}{\square}$

2.
0   1

$\frac{6}{8} = \dfrac{\square}{\square}$

3.
0   1

$\frac{6}{12} = \dfrac{\square}{\square}$

4.
0   1
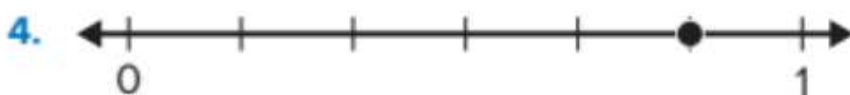
$\frac{5}{6} = \dfrac{\square}{\square}$

8. Use fraction models to decompose fractions into sums of fractions with the same denominator in more than one way.

How can you decompose the fraction into unit fractions?

1. $\dfrac{5}{8} = \dfrac{\square}{\square} + \dfrac{\square}{\square} + \dfrac{\square}{\square} + \dfrac{\square}{\square} + \dfrac{\square}{\square}$

2. $\dfrac{4}{5} = \dfrac{\square}{\square} + \dfrac{\square}{\square} + \dfrac{\square}{\square} + \dfrac{\square}{\square}$

How can you decompose the fraction? Use the number line to justify your answer.

3. Decompose $\frac{12}{8}$ into a sum of 5 fractions.

$$\frac{12}{8} = \frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square}$$
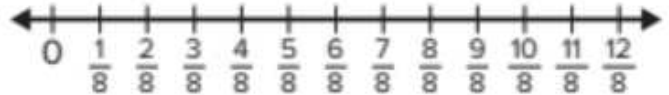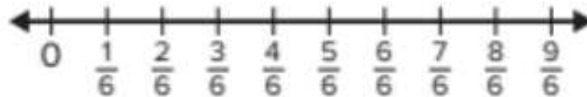
0 $\frac{1}{8}$ $\frac{2}{8}$ $\frac{3}{8}$ $\frac{4}{8}$ $\frac{5}{8}$ $\frac{6}{8}$ $\frac{7}{8}$ $\frac{8}{8}$ $\frac{9}{8}$ $\frac{10}{8}$ $\frac{11}{8}$ $\frac{12}{8}$

4. Decompose $\frac{9}{6}$ into a sum of 3 fractions.

$$\frac{9}{6} = \frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square}$$

0 $\frac{1}{6}$ $\frac{2}{6}$ $\frac{3}{6}$ $\frac{4}{6}$ $\frac{5}{6}$ $\frac{6}{6}$ $\frac{7}{6}$ $\frac{8}{6}$ $\frac{9}{6}$

9. Which addition expressions show a decomposition of $\frac{5}{8}$? Choose all that apply. (Lesson 9-1)

A. $\frac{2}{8} + \frac{3}{8}$

B. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

C. $\frac{1}{8} + \frac{1}{8} + \frac{2}{8}$

D. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

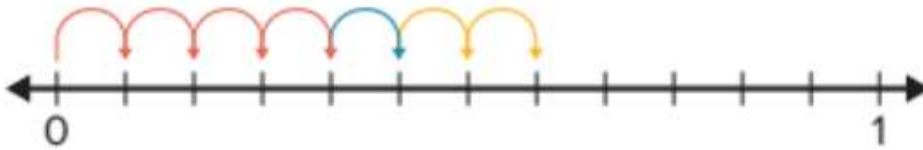E. $\frac{1}{8} + \frac{2}{8} + \frac{2}{8}$

9. Add fractions with like denominators.

1. How can you find the su ? Draw a picture to show your thinking.

$$\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} = \frac{\square}{\square}$$

2. Aaron used a number line to find the sum of three fractions

   What fractions did Aaron add? What is the sum?

$$\frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$

How can you find the sum? Use the fraction model to represent the equation.

3. $\frac{5}{12} + \frac{2}{12} + \frac{3}{12} = \frac{\square}{\square}$

4. $\frac{2}{8} + \frac{5}{8} = \frac{\square}{\square}$

5. $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{\square}{\square}$

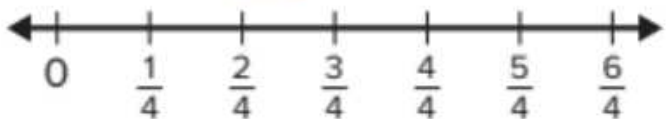6. $\frac{1}{4} + \frac{2}{4} = \frac{\square}{\square}$

What is the sum? Use the number line to represent the equation.

9. $\frac{2}{5} + \frac{2}{5} + \frac{2}{5} = \frac{\square}{\square}$

10. $\frac{3}{4} + \frac{2}{4} = \frac{\square}{\square}$

10. Use representations to show that the sum of fractions with like denominators can befound by adding the numerators and keeping the denominators the same.

9. Anu has $\frac{1}{6}$ meter of wire. She buys $\frac{3}{6}$ meter more. How much wire does Anu have now?

10. James swims part of a mile using the freestyle stroke. He uses the backstroke for $\frac{3}{5}$ mile. If he swims $\frac{4}{5}$ mile in all, how far did James swim using the freestyle stroke?

11. A class sets a goal to collect money for a local charity. They collect $\frac{2}{10}$ of their goal the first week. fter the second week, they had collected $\frac{6}{10}$ of the total goal. How much of their goal did the class collect in the second week?

13. **STEM Connection** Owen is checking a population of butterflies for a unique marking on their wings. In one day, he studies $\frac{4}{5}$ of the population in the morning and $\frac{1}{5}$ of the population in the afternoon. How much of the population of butterfiles did he study in one day?

14. **Extend Your Thinking** Dionne uses $\frac{3}{10}$ roll of tape to seal some boxes and $\frac{4}{10}$ roll of tape for an art project. Did Dionne use more than or less than $\frac{1}{2}$ roll of tape in all? Explain your answer.

11. **Use fraction models to understand subtraction of fractions as separating parts that refer to the same whole.**

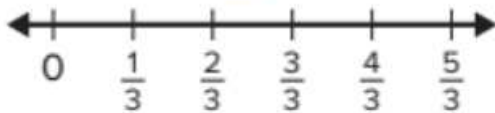How can you find the difference? Use the number line to represent the equation.
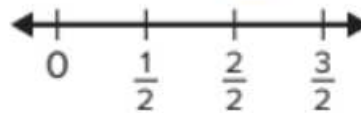
6. $\frac{7}{6} - \frac{1}{6} = \frac{\square}{\square}$
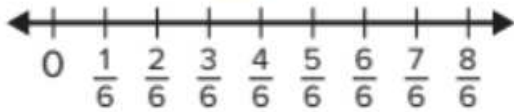
7. $\frac{8}{5} - \frac{4}{5} = \frac{\square}{\square}$

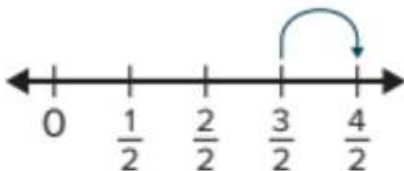**8.** $\frac{5}{3} - \frac{2}{3} = \frac{\square}{\square}$

9. $\frac{3}{2} - \frac{1}{2} = \frac{\square}{\square}$
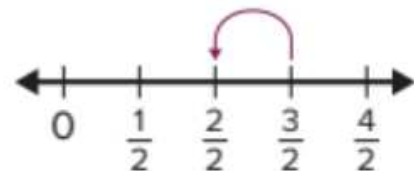

11. Which representation shows $\frac{3}{2} - \frac{1}{2}$?
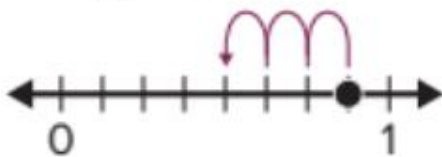
A.

B.

C.

D.

15. Which number line illustrates the difference $\frac{7}{8} - \frac{3}{8}$? (Lessons 9-4, 9-5)

A.

C.
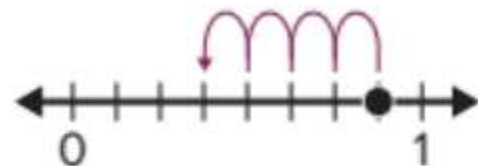
B.
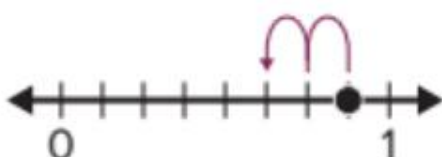
D.
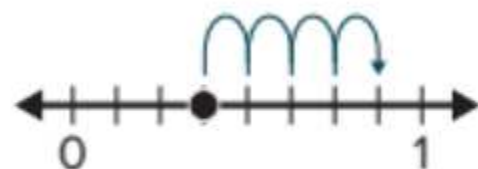
12.   Use mixed numbers as a way to write fractions greater than 1.

How can you decompose the mixed number?
Write equations to represent the decomposition.

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

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

3. $3\frac{1}{4}$

4. $2\frac{1}{2}$

5. What fraction is equivalent to $5\frac{2}{3}$? Use a representation or equation to justify your answer.

6. Linda decomposed a mixed number as $\frac{2}{2} + \frac{2}{2} + \frac{2}{2} + \frac{2}{2} + \frac{2}{2} + \frac{1}{2}$.

    a. What mixed number did Linda decompose?

    b. What is another way Linda could decompose the mixed number?

7. What mixed number is equivalent to $\frac{17}{6}$? Use a representation or equation to justify your answer.

13.   Represent addition of mixed numbers with like denominators using fraction models.

7. Greg has $1\frac{3}{4}$ pounds of peaches. He buys another $3\frac{3}{4}$ pounds of peaches at the store. How many pounds of peaches does Greg have now?

8. How can you use the fraction circles to find the sum of $1\frac{4}{6} + 1\frac{3}{6}$?

9. Lynelle has a goal of walking 4 miles each day. Yesterday she walked $2\frac{5}{8}$ miles in the morning and $1\frac{5}{8}$ miles in the evening. Did Lynelle meet her goal yesterday? Use a representation to justify your answer.

11. Nate used a number line to find the sum of $1\frac{5}{10} + 1\frac{3}{10}$. How can you explain Nate's strategy?
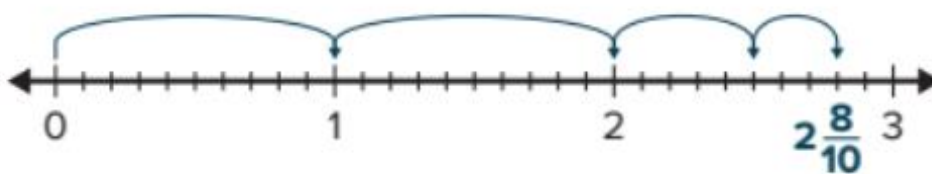
17. The number line shows how April solved an addition problem involving mixed numbers.
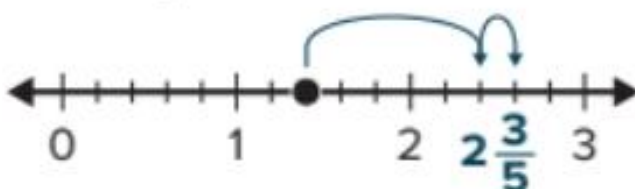
    a. What is the addition problem April solved? (Lesson 10-2)

    b. Explain the strategy April used to add the mixed numbers. (Lesson 10-2)

14

14. **Add mixed numbers using strategies such as using equivalent fractions that are greater than 1 and decomposing the mixed numbers.**

What is the sum?

1. $3\frac{5}{12} + 4\frac{3}{12} = \boxed{}\dfrac{\boxed{}}{\boxed{}}$

2. $2\frac{7}{10} + 2\frac{5}{10} = \boxed{}\dfrac{\boxed{}}{\boxed{}}$

3. $1\frac{3}{6} + 1\frac{4}{6} = \boxed{}\dfrac{\boxed{}}{\boxed{}}$

4. $4\frac{3}{5} + 3\frac{2}{5} = $ _____

5. $5\frac{3}{8} + 4\frac{4}{8} = \boxed{}\dfrac{\boxed{}}{\boxed{}}$

6. $2\frac{2}{3} + 3\frac{2}{3} = \boxed{}\dfrac{\boxed{}}{\boxed{}}$

10. Andy writes these steps to find the sum of $2\frac{5}{12} + 1\frac{2}{12}$. How can you explain the strategy Andy used?

$$2 + 1 = 3$$
$$\frac{5}{12} + \frac{2}{12} = \frac{7}{12}$$
$$3 + \frac{7}{12} = 3\frac{7}{12}$$

11. Lauren plants $2\frac{3}{8}$ rows of tulips and $3\frac{7}{8}$ rows of daffodils. How many rows of flowers does auren plant? Explain how you found your answer.

12. Extend Your Thinking What are possible missing numbers? Justify your answer.

$$1\frac{\boxed{}}{5} + 2\frac{\boxed{}}{5} = \boxed{}\frac{1}{5}$$

15. Represent subtraction of mixed numbers with like denominators using fraction models.

What is the difference? Use a representation to show your work.

1. $4\frac{2}{4} - 3\frac{3}{4} = \dfrac{\square}{\square}$

2. $3\frac{2}{3} - 2\frac{1}{3} = \square\dfrac{\square}{\square}$

3. $2\frac{7}{8} - 1\frac{3}{8} = \square\dfrac{\square}{\square}$

4. $3 - \frac{4}{5} = \square\dfrac{\square}{\square}$

5. $3\frac{4}{6} - 1\frac{3}{6} = \square\dfrac{\square}{\square}$

6. $3\frac{4}{6} - 1\frac{5}{6} = \square\dfrac{\square}{\square}$

7. Stella and Darius go to the same school. Stella's house is 5 miles from the school. Darius's house is $3\frac{9}{10}$ miles from the school. How much farther is Stella's house from the school than Darius's house? Use a representation to justify your answer.

8. How can you use the fraction model to solve $2\frac{1}{6} - 1\frac{3}{6}$?
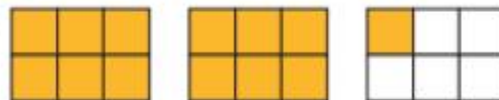
9. Norman has a goal to read $2\frac{1}{3}$ hours this week. He has to read another $1\frac{2}{3}$ hours to reach his goal. How much time has Norman read so far?

8. How can you use the fraction model to solve the equation shown? $3\frac{3}{5} - 1\frac{4}{5} = ?$ (Lesson 10-4)

مؤسسة الإمارات للتعليم المدرسي
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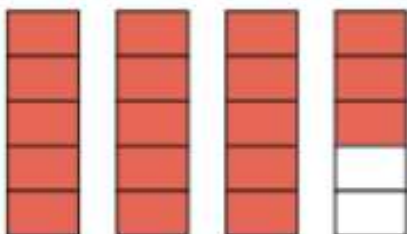
هذا الجزء مهم جدا جدا جدا بالخطوات الحل على التدرب يجب اختصار وعدم خطوة اي

This part is very, very, very important you must practice solving in steps without shortening any step

16. **Find a reasonable range for the estimate of a quotient.**

How can you estimate a range for the quotient?
Write equations to show your work.

5. $749 \div 8$

6. $522 \div 7$

7. $3{,}297 \div 8$

8. $6{,}428 \div 9$

17. **Explain what a remainder means in the context of the problem.**

Learn

Avery's classroom library has 235 books in one bookcase. The bookcase has 8 shelves. Each shelf has the same number of books on it.

How many books are on each shelf?

You can divide to solve the problem.

$235 \div 8 = ?$

Use the partial quotients strategy.

$$\begin{array}{r} 235 \\ -160 \\ \hline 75 \\ -\ 72 \\ \hline 3 \end{array} \quad \begin{array}{l} (8 \times 20) \\ \\ (8 \times 9) \end{array}$$

Think: What number times 8 is closest to 235?

235 cannot be divided evenly into 8. There is a **remainder** of 3.

a remainder

Add the partial quotients and write the remainder.

$235 \div 8 = 29 \text{ R}3$

The remainder can be shown with the letter R.

Math is... **Connections**

In the partial-quotients strategy, what indicates that there is a remainder?

There are 29 books on each shelf with 3 books left over.

Avery's school purchased 7,220 books for the students. If each student receives 6 books, how many books will be left over? Use the partial-quotients strategy to solve the problem.

8. A restaurant has $609 to buy cups. If each box of cups costs $9, how many boxes can the restaurant purchase? How much money will be left over?

9. A party planner has 275 balloons for a party. How many tables can he have with 6 balloons on each table? How many balloons will be left over?

10. George has $20 and wants to buy snow cones for his friends. The snow cones are $3 each. How many snow cones can he buy? How much money will he have left?

11. When you solve a division problem, how do you know if you have a remainder?

12. **Extend Your Thinking** For the dividend 1,240, how do you know that dividing by 2, 5, and 10 will not result in a remainder?

18.

a) Compare two fractions using the benchmark numbers 0, 1/2, and 1.

How can you compare the fractions using benchmark numbers?
Write >, <, or = to record the comparison.

1. $\frac{4}{6}\bigcirc\frac{9}{10}$

2. $\frac{6}{12}\bigcirc\frac{4}{8}$

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

4. $\frac{4}{3}\bigcirc\frac{7}{8}$

5. Which fractions are greater than $\frac{7}{12}$? Choose all that apply.

   A. $\frac{2}{10}$ B. $\frac{6}{5}$

   C. $\frac{3}{6}$ D. $\frac{8}{10}$

6. Which fractions are less than $\frac{5}{8}$? Choose all that apply.

   A. $\frac{2}{6}$ B. $\frac{3}{2}$

   C. $\frac{9}{10}$ D. $\frac{4}{12}$

11. Match each fraction to the benchmark number it is closest to. (Lesson 8-4)

   Closest to 0

   Closest to $\frac{1}{2}$

   Closest to 1

   $\frac{2}{4}$

   $\frac{2}{10}$

   $\frac{3}{5}$

   $\frac{1}{8}$

   $\frac{5}{6}$

   $\frac{7}{8}$

12. Complete the comparisons using >, <, and =. (Lessons 8-4, 8-5)

   $\frac{3}{4}\bigcirc\frac{10}{12}$

   $\frac{2}{6}\bigcirc\frac{4}{5}$

   $\frac{7}{8}\bigcirc\frac{6}{10}$

13. Which fractions are greater than $\frac{3}{8}$? Choose all that apply.

   (Lessons 8-4, 8-5)

   A. $\frac{1}{6}$ B. $\frac{1}{4}$

   C. $\frac{2}{3}$ D. $\frac{4}{5}$

   E. $\frac{2}{12}$ F. $\frac{5}{10}$

b) Compare two fractions by generating equivalent fractions with like numerators or like denominators.

7. Russel and Toby each bought a medium box of popcorn. Russel ate $\frac{3}{5}$ of his popcorn and Toby ate $\frac{6}{8}$ of his popcorn. Did Russel eat more popcorn than Toby? Explain your reasoning.

8. Klaya compares two fractions. She writes one of the fractions as an equivalent fraction so the fractions have like denominators. What fractions might Klaya be comparing? Explain your reasoning.

9. Ethan and Petra have the same number of raffle ti   ets to sell. Ethan sold $\frac{1}{4}$ of his raffle ti   ets. Petra sold $\frac{3}{8}$ of her raffl tickets. Who sold more tickets? Explain your reasoning.

10. Lilliana compares $\frac{4}{10}$ and $\frac{8}{12}$ by finding equivalent fractions. B ad compares the same fractions using a benchmark fraction. Which strategy do you think is more efficient to compare the fractio   ? Explain your reasoning.

11. **Error Analysis** Janet's family eats $\frac{4}{8}$ of a large pizza. Julie's family eats $\frac{3}{6}$ of a small pizza. Julie says her family ate the same amount as Janet's family because $\frac{4}{8} = \frac{3}{6}$. Is Julie correct? Explain.

12. **Extend Your Thinking** How can you use equivalent fractions to compare $\frac{2}{3}$ and $\frac{3}{4}$?

19. **Use the correct units of measure to solve word problems using addition and subtraction of fractions with like denominators.**
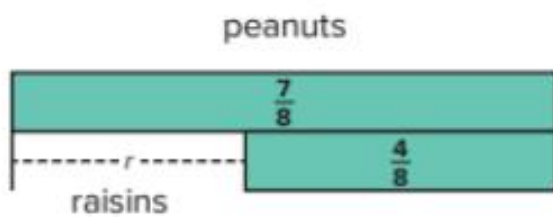
Learn

Graham makes his own trail mix. Graham uses $\frac{7}{8}$ pound peanuts in the trail mix. He uses $\frac{4}{8}$ pound less raisins than peanuts.

What is the total weight of the trail mix?

Some problems have more than one question to answer.

Step 1: What is the weight of the raisins that Graham uses?

peanuts

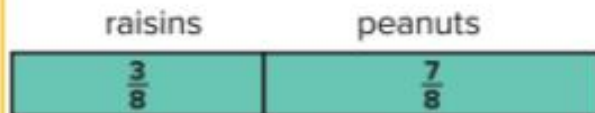$$\frac{7}{8}$$

$$\frac{4}{8}$$

raisins

$$\frac{7}{8} - \frac{4}{8} = r$$

$$\frac{3}{8} = r$$

Graham uses $\frac{3}{8}$ pound of raisins.

Step 2: What is the total weight of the trail mix?

raisins   peanuts

$$\frac{3}{8}$$ $$\frac{7}{8}$$

w

$$\frac{3}{8} + \frac{7}{8} = w$$

$$\frac{10}{8} = w$$

The total weight of the trail mix is $\frac{10}{8}$ pounds.

You can use strategies you know to solve problems involving addition and subtraction of fractions.

Math is... **Connections**

How is addition with fractions like addition with whole numbers?

Work Together

Heidi and her brother are painting a wall. Heidi painted $\frac{4}{10}$ of the wall. Her brother painted $\frac{3}{10}$ of the wall. How much of the wall still needs to be painted? Use equations and representations to show your work.

What is the solution? Use representations and equations to solve.

1. To make a recipe, Clarice uses $\frac{1}{4}$ cup of oil and $\frac{2}{4}$ cup of water. How much liquid does she use?

2. Jen ran $\frac{9}{10}$ mile. Her sister ran $\frac{12}{10}$ miles. How much farther did Jen's sister run?

3. There was some water in a tank. Camryn drained $\frac{5}{12}$ of the tank. Now there is $\frac{2}{12}$ of the tank remaining. How much of the tank was filled with water before Camryn drained it?

4. To make a fruit salad, Sully uses $\frac{5}{6}$ pound of oranges. He uses $\frac{3}{6}$ pound less berries than oranges. What is the total weight of the oranges and berries?

5. Marcie planned to walk around the entire park, but her mother gave her a ride in the car for the last $\frac{4}{10}$ mile. How far did she walk?

START

$\frac{3}{10}$ mi

$\frac{7}{10}$ mi
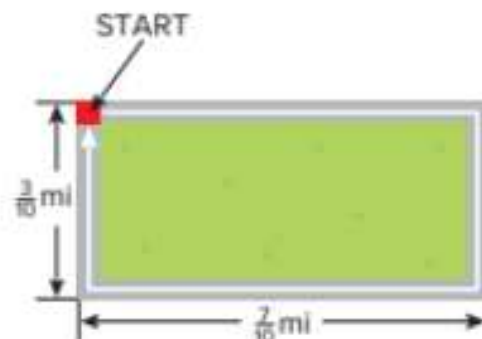
20. Subtract mixed numbers using strategies such as using equivalent fractions and related addition equations.

7. A rug is $9\frac{5}{12}$ feet long and $6\frac{1}{12}$ feet wide. How many feet longer is the length than the width? Explain how you found your answer.

8. **Error Analysis** Christy solved $3\frac{2}{8} - 2\frac{7}{8} = ?$ and got a solution of $1\frac{5}{8}$. How can you help Christy understand her solution is not reasonable?

9. Jon mixes $1\frac{3}{4}$ cups of strawberries with some blueberries in a bowl. There are $3\frac{1}{4}$ cups of fruit in the bowl. How many cups of blueberries are in the bowl? Explain how you found your answer.

10. Cooper writes the following steps to solve $8\frac{9}{12} - 4\frac{4}{12} = ?$. How can you explain the strategy Cooper used?

$$8\frac{9}{12} - 4 = 4\frac{9}{12}$$

$$4\frac{9}{12} - \frac{4}{12} = 4\frac{5}{12}$$

11. Tammy has $3\frac{2}{3}$ more feet of fabric than Megan. Tammy has $4\frac{1}{3}$ feet of fabric. How many feet of fabric does Megan have? Explain how you found your answer.

12. Extend Your Thinking What are possible missing numbers? Justify your answer.

$$3\frac{\square}{8} - 2\frac{\square}{8} = \square\frac{6}{8}$$

Number of MCQ عدد الأسئلة الموضوعية	15
Marks of MCQ درجة الأسئلة الموضوعية	4
Number of FRQ عدد الأسئلة المقالية	5
Marks per FRQ الدرجات للأسئلة المقالية	(5-10)
Type of All Questions نوع كافة الأسئلة	الأسئلة الموضوعية/ MCQ
	الأسئلة المقالية/ FRQ
Maximum Overall Grade الدرجة القصوى الممكنة	100
Exam Duration - مدة الامتحان	120 minutes

With my best wishes