

تم تحميل هذا الملف من موقع المناهج الإماراتية



تجميع أسئلة الوحدة السابعة والثامنة وفق الهيكل الوزاري منهج ريفيل

موقع المناهج ← المناهج الإماراتية ← الصف الرابع ← رياضيات ← الفصل الثاني ← ملفات متنوعة ← الملف

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ملفات اكتب للمعلم اكتب للطالب | اختبارات الكترونية | اختبارات | حلول | عروض بوربوينت | أوراق عمل
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المزيد من مادة
رياضيات:

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التواصل الاجتماعي بحسب الصف الرابع



الرياضيات



اللغة الانجليزية



اللغة العربية



التربية الاسلامية



المواد على تلغرام

صفحة المناهج
الإماراتية على
فيسبوك

المزيد من الملفات بحسب الصف الرابع والمادة رياضيات في الفصل الثاني

أسئلة اختبار EQUIVALENCE FRACTION 8 UNIT 2 Quiz منهج ريفيل

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أسئلة اختبار الوحدة الثامنة Equivalence Fraction تكافؤ الكسور منهج ريفيل

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الهيكل
2025-2024

رابط مجموعة الصف الرابع

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You can use different strategies to solve these equations.

- ▶ **One Way** Use basic facts and place value.

dividend **divisor** **quotient**

$$24 \div 3 = 8$$

$$24 \text{ tens} \div 3 = 8 \text{ tens}$$

$$24 \text{ hundreds} \div 3 = 8 \text{ hundreds}$$

$$24 \text{ thousands} \div 3 = 8 \text{ thousands}$$

$$\text{so, } 240 \div 3 = 80$$

$$\text{so, } 2,400 \div 3 = 800$$

$$\text{so, } 24,000 \div 3 = 8,000$$

- ▶ **Another Way** Use the relationship between multiplication and division.

$$3 \times 8 = 24$$

$$3 \times 80 = 240$$

$$3 \times 800 = 2,400$$

$$3 \times 8,000 = 24,000$$

$$\text{so, } 24 \div 3 = 8$$

$$\text{so, } 240 \div 3 = 80$$

$$\text{so, } 2,400 \div 3 = 800$$

$$\text{so, } 24,000 \div 3 = 8,000$$

Math is... Patterns

How can you use the pattern with zeros to divide other multiples of 10, 100, or 1,000?



Miguel bought 300 seedlings for his garden. He wants to plant an equal number of seedlings in 6 rows. How many seedlings go in each row? Show and explain your work.



How can you complete the equations?

1. $36 \text{ ones} \div 9 = \underline{\hspace{2cm}}$ ones

$36 \text{ tens} \div 9 = \underline{\hspace{2cm}}$ tens

$36 \underline{\hspace{2cm}} \div 9 = 4 \text{ hundreds}$

2. $180 \div 3 = \underline{\hspace{2cm}}$

$1,800 \div 3 = \underline{\hspace{2cm}}$

$18,000 \div 3 = \underline{\hspace{2cm}}$

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

3. $48 \text{ tens} \div 6 = ?$

$6 \times 8 \underline{\hspace{2cm}} = 48 \text{ tens}$

So, $48 \text{ tens} \div 6 = \underline{\hspace{2cm}}$

4. $35,000 \div 5 = ?$

$5 \times \underline{\hspace{2cm}} = 35,000$

So, $35,000 \div 5 = \underline{\hspace{2cm}}$

5. $560 \div 7 = \underline{\hspace{2cm}}$

6. $360 \div 4 = \underline{\hspace{2cm}}$



What division equation can you use to solve the problem?

- 7.** A bus travels 3,000 miles in 5 days. It travels the same distance each day. How far does the bus travel in one day?
- 8.** A school orders 420 math textbooks. The textbooks arrive in 6 boxes with an equal number of books in each box. How many books are in each box?



9. Naomi reads the same number of pages each day. After 8 days she has read 320 pages. How many pages does she read each day?



Learn

A hardware store owner is putting nuts and bolts into separate boxes. She divides the nuts equally into 6 boxes and the bolts equally into 7 boxes.

About how many bolts will go in each box?

You can write division equations and estimate using a **range** to solve.



561 nuts



3,358 bolts

In order to estimate the quotient you can use compatible numbers.

Use a compatible number less than the dividend.

$$3,358 \div 7 = ?$$

$$\begin{array}{c} \downarrow \quad \downarrow \\ 2,800 \div 7 = 400 \end{array}$$

Use a compatible greater than the dividend.

$$3,358 \div 7 = ?$$

$$\begin{array}{c} \downarrow \quad \downarrow \\ 3,500 \div 7 = 500 \end{array}$$

A range of 400 to 500 bolts will go in each box. Since 3,500 is closer to 3,358 than 2,800, the actual quotient will be closer to 500 than 400.



About how many nuts will the hardware owner put in each box?

How can you estimate the quotient using compatible numbers?

1. $342 \div 8$

2. $836 \div 9$

3. $2,134 \div 7$

4. $5,361 \div 6$



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. $6,428 \div 9$



9. A class collected 323 cans for recycling. They can place only 7 cans in each bag. About how many bags will the class need for their cans?
10. Jeremy scored a total of 6,128 points playing video games. If he scored about the same number of points in each of his 9 games, about how many points did he score in each game?
11. The bowling alley had 397 bowlers over the weekend. There were about 5 bowlers for each lane rental. About how many lane rentals did they have for the weekend?



Learn

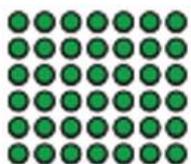
Ralph has 42 avocados. He places an equal number into each of three crates.

How many avocados will he put into each crate?

A division equation can represent the problem.

You can use counters and groups to represent the problem.

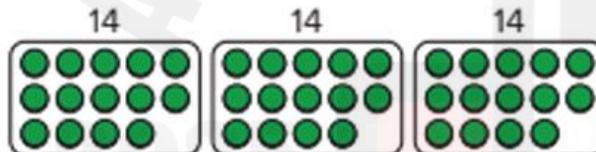
$$42 \div 3 = c$$



Math is... Connections

What other operation represents equal sharing?

Partition the counters into three equal groups.



There are 14 counters in each group.

$$42 \div 3 = 14$$

Ralph will put 14 avocados into each crate.



Shannon uses 52 beads to make 4 bracelets. Each bracelet has the same number of beads. How many beads are in each bracelet?

How can you solve the problem? Use counters or draw a picture to show your work.

1. 12 counters are shared equally into 3 groups.

There are _____ counters in each group.

2. 25 counters are shared equally into 5 groups.

There are _____ counters in each group.



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3. $49 \div 7 = \underline{\hspace{2cm}}$

4. $39 \div 3 = \underline{\hspace{2cm}}$

5. $66 \div 6 = \underline{\hspace{2cm}}$

6. $75 \div 5 = \underline{\hspace{2cm}}$



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?



Learn

A factory is packaging 1,550 golf balls.
Each box holds 5 golf balls.

How many boxes will the factory fill?

You can use an area model to represent and solve the problem.

$$b = 1,550 \div 5$$

The divisor

5



The dividend represents the total.

Think: How many 5s are in 1,550?

Area Model



Partial Quotients

$$\begin{array}{r} 1,550 \\ - 500 \quad (5 \times 100) \\ \hline 1,050 \\ - 500 \quad (5 \times 100) \\ \hline 550 \\ - 500 \quad (5 \times 100) \\ \hline 50 \\ - 50 \quad (5 \times 10) \\ \hline 0 \end{array}$$

Add the partial quotients to find the final quotient.

$$100 + 100 + 100 + 10 = 310$$

$$b = 1,550 \div 5$$

$$b = 310$$

The factory can fill 310 boxes of golf balls.

Math is... Patterns

What other partial quotients could you use?



How can you use partial quotients to solve the equation?

$$4,564 \div 4 = ?$$

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

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

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

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

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



What is the quotient? Use partial quotients to solve.

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

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



What is the quotient? Use partial quotients to solve.

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

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



7. There are 1,359 students attending field day. There are 9 different game stations. Each game station holds the same number of students. How many students will be at each game station?
8. Zoe bought 2,268 inches of ribbon. She is making 4 different costumes with each costume using the same amount of ribbon. How many inches of ribbon will Zoe use for each costume?



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.

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

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.



8

$$8 \times 1 = 8$$

$$8 \times 2 = 16$$

$$8 \times 3 = 24$$

$$8 \times 4 = 32$$

$$8 \times 5 = 40$$

$$8 \times 6 = 48$$

$$8 \times 7 = 56$$

$$8 \times 8 = 64$$

$$8 \times 9 = 72$$

$$8 \times 10 = 80$$





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.



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

1. $415 \div 2 =$ _____ R _____

$$\begin{array}{r} 415 \\ - 200 \text{ (} 2 \times 100 \text{)} \\ \hline 215 \\ - 200 \text{ (} 2 \times 100 \text{)} \\ \hline 15 \\ - 14 \text{ (} 2 \times 7 \text{)} \\ \hline 1 \end{array}$$

2. $5,044 \div 5 =$ _____ R _____

$$\begin{array}{r} 5,044 \\ - 5,000 \text{ (} 5 \times 1,000 \text{)} \\ \hline 44 \\ - 40 \text{ (} 5 \times 8 \text{)} \\ \hline 4 \end{array}$$



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

3. $929 \div 3 =$ _____

4. $119 \div 4 =$ _____

5. $3,225 \div 8 =$ _____

6. $8,254 \div 5 =$ _____

7. $8,437 \div 7 =$ _____

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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?

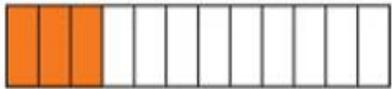


Learn

Marcy and Xavier are reading the same book. Marcy says she read $\frac{1}{4}$ of the book. Xavier says he read $\frac{3}{12}$ of the book.

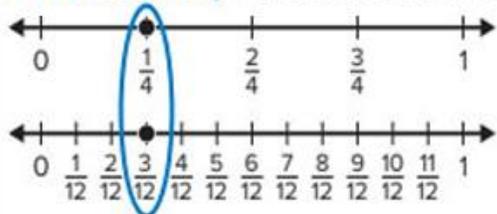
How can you determine whether they read the same amount?

► **One Way** Use Fraction Strips



$\frac{1}{4}$ and $\frac{3}{12}$ represent the same amount.
They are **equivalent fractions**.

► **Another Way** Use Number Lines



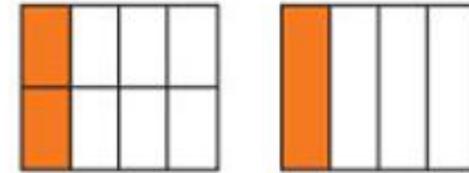
$\frac{1}{4}$ and $\frac{3}{12}$ are at the same point on the number line.
Marcy and Xavier read the same amount of the book.

Math is... Patterns

What patterns do you see in the representations?

 **Work Together**

Are $\frac{2}{8}$ and $\frac{1}{4}$ equivalent fractions? Use the fraction models to explain.



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



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



7. Kathy lives $\frac{2}{4}$ mile from the park. Charles lives $\frac{6}{12}$ mile from the park. Do they live the same distance from the park? Explain.
8. Faye and Omar ate the same amount of a small quesadilla. Faye's quesadilla was cut into 4 pieces and Omar's was cut into 8 pieces. How many pieces might they each have eaten? Explain your reasoning.



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

(Lessons 8-1, 8-2)



7. Which fractions are equivalent to the point on the number line?

Choose all that apply. (Lessons 8-1, 8-3)



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

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

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

D. $\frac{8}{12}$

E. $\frac{8}{10}$

F. $\frac{6}{8}$

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. $\frac{4}{5}$



Learn

Alexa and Sari got pizzas that are the same size. Alexa cut her pizza into 6 equal-sized pieces and ate $\frac{4}{6}$ of her pizza. Sari ate the same amount of her pizza, but cut her pizza into smaller equal-sized pieces.



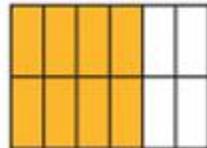
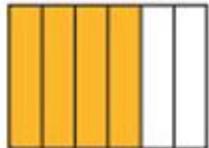
What fraction of her pizza could Sara have eaten?

You can find fractions that are equivalent to $\frac{4}{6}$.

► **One Way** Use fraction models.

Alexa

Sari



6 equal parts.

12 equal parts.

4 are shaded.

8 are shaded.

$$\frac{4}{6}$$

$$\frac{8}{12}$$

Sari could have eaten $\frac{8}{12}$ of her pizza.

► **Another Way** Rewrite $\frac{4}{6}$ with a different denominator.

To generate an equivalent fraction, multiply the numerator and denominator by a fraction equal to 1.

$$\frac{4 \times 2}{6 \times 2} = \frac{8}{12}$$

$$\frac{2}{2} = 1$$

$$\frac{4 \times 3}{6 \times 3} = \frac{12}{18}$$

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

Sari could have eaten $\frac{12}{18}$ of her pizza.

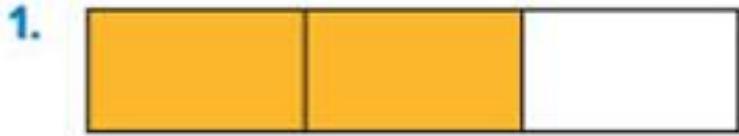


What fraction is missing from the pattern? Explain how you can find the equivalent fraction.

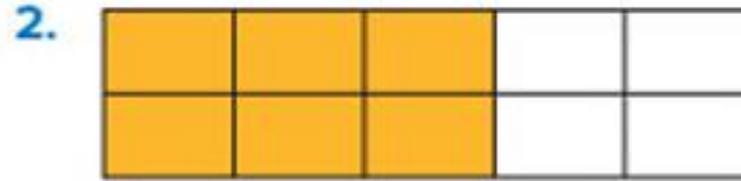
$$\frac{3}{4} = \frac{6}{8} = \frac{?}{?} = \frac{12}{16}$$



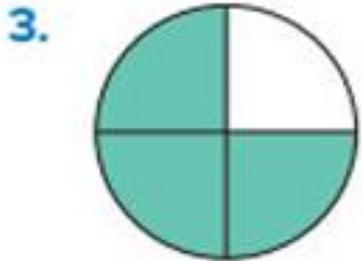
Use the representation to find an equivalent fraction.



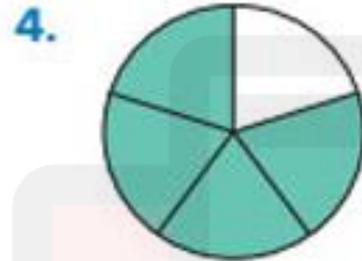
$$\frac{2}{3} = \frac{\square}{\square}$$



$$\frac{6}{10} = \frac{\square}{\square}$$



$$\frac{3}{4} = \frac{\square}{\square}$$



$$\frac{4}{5} = \frac{\square}{\square}$$



Find the missing number in the equivalent fraction.
Explain how you determined the number.

5. $\frac{1}{5} = \frac{2}{\square}$

6. $\frac{3}{4} = \frac{75}{\square}$

7. $\frac{14}{12} = \frac{\square}{6}$

8. $\frac{12}{9} = \frac{\square}{3}$



Learn

Jade used different colors of ribbon to decorate a board.

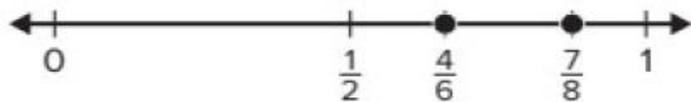
How can Jade compare the amount of red ribbon she used to the amounts she used for the other colors?

You can compare fractions to a benchmark number.

Ribbon Color	Amount Used
Red	$\frac{4}{6}$ yard
Green	$\frac{7}{8}$ yard
Blue	$\frac{5}{12}$ yard


Work Together

How can you use benchmark numbers to compare $\frac{2}{10}$ and $\frac{4}{5}$?
Use a fraction model to justify your comparison.



$\frac{7}{8}$ is close to 1.

$\frac{4}{6}$ is close to $\frac{1}{2}$. $\frac{7}{8} > \frac{4}{6}$.

Jade used more green than red ribbon.

Math is... Thinking

How do benchmark numbers help you determine how two fractions are related?



$\frac{4}{6}$ is greater than $\frac{1}{2}$ and $\frac{5}{12}$ is less than $\frac{1}{2}$. $\frac{4}{6} > \frac{5}{12}$. Jade used more red than blue ribbon.

You can use the benchmark numbers 0, $\frac{1}{2}$, and 1 to compare fractions.



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

1. $\frac{4}{6}$ ○ $\frac{9}{10}$

2. $\frac{6}{12}$ ○ $\frac{4}{8}$

3. $\frac{3}{4}$ ○ $\frac{4}{10}$

4. $\frac{4}{3}$ ○ $\frac{7}{8}$



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. $\frac{4}{12}$



7. Oscar ran $\frac{7}{8}$ mile on Tuesday and $\frac{6}{10}$ mile on Thursday. On which day did Oscar run a greater distance? Explain your thinking.
8. Ron is comparing two fractions. He says he knows which fraction is greater by comparing them to the benchmark fraction $\frac{1}{2}$. What two fractions could Ron be comparing? Explain your reasoning.



Learn

Marta's father made two pasta dishes. The table shows how much cheese and sauce he used in the dishes.

Ingredient	Amount
Parmesan Cheese	$\frac{3}{4}$ cup
Mozzarella Cheese	$\frac{5}{8}$ cup
Marinara Sauce	$\frac{2}{3}$ liter
Meat Sauce	$\frac{4}{5}$ liter

How can you compare the amounts of cheese he used?

How can you compare the amounts of sauce he used?

You can compare $\frac{3}{4}$ and $\frac{5}{8}$ using an equivalent fraction so the fractions have **like denominators**.

$$\begin{array}{cc} \frac{3}{4} & \frac{5}{8} \\ \downarrow & \downarrow \\ \frac{6}{8} & > \frac{5}{8} \end{array}$$

Six $\frac{1}{8}$ parts $>$ five $\frac{1}{8}$ parts

Marsha used more parmesan cheese than mozzarella cheese.

You can compare $\frac{2}{3}$ and $\frac{4}{5}$ using an equivalent fraction so the fractions have **like numerators**.

$$\begin{array}{cc} \frac{2}{3} & \frac{4}{5} \\ \downarrow & \downarrow \\ \frac{4}{6} & < \frac{4}{5} \end{array}$$

Four $\frac{1}{6}$ parts $<$ four $\frac{1}{5}$ parts

Marsha used less marinara sauce than meat sauce.



Hannah ate $\frac{3}{4}$ of a small apple. Her brother ate $\frac{7}{12}$ of a large apple. Hannah says she ate more than her brother because $\frac{3}{4} = \frac{9}{12}$ and $\frac{9}{12} > \frac{7}{12}$. How would you respond to Hannah?



Write $>$, $<$, or $=$ to compare the fractions. Explain your reasoning for each comparison.

1. $\frac{3}{5} \bigcirc \frac{8}{10}$

2. $\frac{2}{6} \bigcirc \frac{1}{3}$

3. $\frac{4}{12} \bigcirc \frac{2}{5}$

4. $\frac{3}{4} \bigcirc \frac{6}{10}$

5. $\frac{2}{4} \bigcirc \frac{5}{10}$

6. $\frac{7}{12} \bigcirc \frac{2}{3}$



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 tickets to sell. Ethan sold $\frac{1}{4}$ of his raffle tickets. Petra sold $\frac{3}{8}$ of her raffle tickets. Who sold more tickets? Explain your reasoning.



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

Closest to 0	$\frac{2}{4}$
	$\frac{2}{10}$
Closest to $\frac{1}{2}$	$\frac{3}{5}$
	$\frac{1}{8}$
Closest to 1	$\frac{5}{6}$
	$\frac{7}{8}$

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. $\frac{1}{6}$

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

E. $\frac{2}{12}$

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

D. $\frac{4}{5}$

F. $\frac{5}{10}$

