

شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



حل مراجعة وفق الهيكل الوزاري ريفيل

موقع المناهج ← المناهج الإماراتية ← الصف السادس ← رياضيات ← الفصل الأول ← الملف

تاريخ نشر الملف على موقع المناهج: 07:26:48 2023-11-09 | اسم المدرس: طارق علي

التواصل الاجتماعي بحسب الصف السادس



روابط مواد الصف السادس على تلغرام

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المزيد من الملفات بحسب الصف السادس والمادة رياضيات في الفصل الأول

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رياضيات 2024

هيكل 6 ريفيل 2024

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1-1

1. In Suri's coin purse, she has 6 dimes and 4 quarters. Martha has 5 dimes and 3 quarters. Suri thinks that the ratio of dimes to quarters in both purses is the same because they each have 2 more quarters than dimes. Is the same ratio of dimes to quarters maintained? Justify your response

A) yes

B) no

* Suri's = $\frac{6}{4} = \frac{2 \times 3}{2 \times 2} = \frac{3}{2}$

* Martha = $\frac{5}{3}$ Not Same

2. In a trivia game, Levi answered 8 questions correctly out of 10 turns in the game. He then answered the next three questions correctly. He reasoned that because he added 3 to both the total questions and his correct responses, that the ratio of correct answers to total questions remained the same. Is he correct? Justify your response.

A) yes

B) no

$\frac{8+3}{10+3} = \frac{11}{13}$

Not Same

out of same
 $\frac{8}{10}$



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1-1

3. Riley needs to make fruit punch for the family reunion. One batch of punch has the ingredients shown. If the punch bowl holds 27 cups, how many cups of orange juice will she need to keep the ratio in a full punch bowl the same?

Item	Cups
Cranberry Juice	4
Lemon Lime Soda	1
Orange Juice	2
Pineapple Juice	2

A) 4 cups

B) 5 cups

C) 6 cups

D) 8 cups

$4 + 1 + 2 + 2 = 9$

$\text{orange} = \frac{2}{9} \times 27 = \frac{2 \times 9 \times 3}{9}$

6 cups

4. A small fruit basket contains the fruits shown. A large basket has the same ratio of fruits as the small basket. If the large basket has 42 total pieces of fruit, how many are pears?

Type of Fruit	Amount
Apple	6
Orange	5
Pear	3

A) 4

B) 9

C) 6

D) 8

$\text{Pears} = 3$

$\text{total} = 6 + 5 + 3 = 14$

$\frac{3}{14} \times 42 = \frac{3 \times 7 \times 6}{7 \times 2}$

$\frac{3 \times 2 \times 3}{2} = 9$

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5. Mrs. Santiago is buying doughnuts for her office. Each box contains 6 glazed, 4 cream filled, and 2 chocolate flavored doughnuts. If there were **20 total cream** filled doughnuts, how many chocolate doughnuts did she buy?

- A) 4
- B) 9
- C) 6
- D) 10**

Handwritten solution for Question 5:

Box

2 chocolate 6 glazed 4 Cream

* number of boxes = $\frac{20}{4}$

5 boxes

* $2 \times 5 = 10$ chocolate.

6. A small batch of trail mix contains 2 cups of raisins, 2 cups of peanuts, 1 cup of sunflower seeds, and 1 cup of chocolate coated candies. A large batch has the same ratio of ingredients as a small batch. If the large batch has 8 cups of peanuts, how many cups of sunflower seeds are in a large batch?

- A) 4 cups**
- B) 9 cups
- C) 6 cups
- D) 8 cups

Handwritten solution for Question 6:

Same ratio

* $\frac{8}{2} = 4$ cups

sunflower = $1 \times 4 = 4$



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1-2

Example 1 Scale Forward to Find Equivalent Ratios

To make yellow icing, Amida mixes 6 drops of yellow food coloring with 2 cups of white icing.

How many drops of yellow food coloring should Amida mix with 8 cups of white icing to get the same shade of yellow?

A) 24

B) 19

C) 60

D) 18

$$\frac{6}{2} \times 8 = \frac{2 \times 3 \times 8}{2}$$

$$3 \times 8 = 24 \text{ drops}$$

Check

In a batch of trail mix, there are 3 tablespoons of peanuts for every 2 tablespoons of sunflower seeds. How many tablespoons of sunflower seeds are needed if you have 18 tablespoons of peanuts?

A) 24

B) 19

C) 60

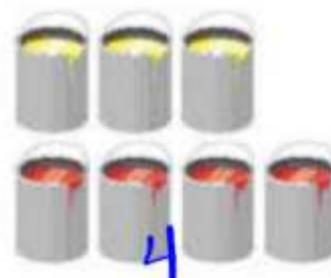
D) 12

$$\frac{2}{3} \times 18 = \frac{2 \times 3 \times 6}{3}$$

$$2 \times 6 = 12$$

Example 2 Scale Backward to Find Equivalent Ratios

Akeno mixes three sample containers of yellow paint with four sample containers of red paint to create his favorite shade of orange paint. His little sister Aiko wants to create the same shade of orange paint, but she only has two sample containers of red paint.



A) $\frac{3}{2}$

B) 3

C) 6

D) 2

$$\frac{3}{4} \times 2$$

$$\frac{3 \times 2}{2 \times 2}$$

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

What should Aiko do to create the same shade of orange paint?



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1-2

Check

To make three loaves of banana bread, you need 9 bananas. How many bananas are needed to make one loaf of banana bread?

A) 9

B) 3

C) 6

D) 2

bananas
loaves

$$= \frac{9}{3} \times 1$$

$$= 3 \times 1 = \boxed{3}$$

Example 3 Scale in Both Directions

Natasha made raspberry punch for a party by mixing 9 fluid ounces of fruit punch, 3 liters of soda, and 6 scoops of raspberry ice cream. Halfway through the party, the punch bowl was empty.

If Natasha only has 6 fluid ounces of fruit punch left, how much ice cream does she need to make another batch of punch?

A) 9

B) 3

C) 4

D) 2

ice cream
Fruit

$$\rightarrow \frac{6}{9} = \frac{x}{6}$$

$$x = \frac{6 \times 6}{9} = \frac{36}{9}$$

$$\boxed{x = 4}$$

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1-2

Check

Refer to Example 3. How many liters of soda should Natasha mix with the 6 fluid ounces of fruit punch?

Example 3 Scale in Both Directions

Natasha made raspberry punch for a party by mixing 9 fluid ounces of fruit punch, 3 liters of soda, and 6 scoops of raspberry ice cream. Halfway through the party, the punch bowl was empty. If Natasha only has 6 fluid ounces of fruit punch left, how much ice cream does she need to make another batch of punch?

A) 9

B) 3

C) 4

D) 2

Soda → $\frac{3}{9} = \frac{x}{6}$

$x = \frac{3 \times 6}{9} = \frac{18}{9} = 2$

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هیکل 6 ریفل

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Use any strategy to solve each problem.

1. A survey showed that 4 out of 5 students own a bicycle. Based on this result, how many of the 800 students in a school own a bicycle?

A) 320

B) 640

C) 420

D) 250

$\frac{4}{5} \times 800 = 640$

$\frac{3200}{5} = 640$

out of Same

640

5) 3200

30

200

200

0

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1-5

2. A survey of Mr. Thorne's class shows that

5 out of 8 students will buy lunch today.

Based on this result, how many of the

720 students in the school will buy today?

A) 225

B) 15

C) 450

D) 44

$$\frac{5}{8} \times 720 = \frac{5 \times \cancel{8} \times 90}{\cancel{8}}$$

$$5 \times 90 = 450$$

3. The ratio of the number of baskets made by Tony to the number of baskets made by Colin is 2 to 3. Tony made 10 baskets. How many baskets did Colin make?



Flupe

to

A) 225

B) 15

C) 450

D) 44

$$\frac{3}{2} \times 10$$

$$\frac{3 \times \cancel{2} \times 5}{\cancel{2}}$$

$$3 \times 5 = 15$$





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4. In the school choir, there is 1 boy for every 4 girls. There are a total of 11 boys. How many girls are in the choir?

- A) 225
- B) 15
- C) 450
- D) 44

$$\frac{1}{4} \times 11 = \frac{11}{4} = 2\frac{3}{4}$$

Handwritten calculation showing the fraction $\frac{1}{4}$ multiplied by 11, resulting in $2\frac{3}{4}$, which is boxed as 24.



5. Liberty Middle School has 600 students. In Anna's class, 3 out of 8 students walk to school. How many students at the school can be expected to walk to school?

- A) 225
- B) 15
- C) 450
- D) 44

$$\frac{3}{8} \times 600 = \frac{1800}{8} = 225$$

Handwritten calculation showing $\frac{3}{8} \times 600 = \frac{1800}{8} = 225$, with the result 225 boxed.

Same

$$8 \overline{) 1800}$$

Handwritten long division showing 8 dividing 1800 to get 225.

6. Pine Hill Middle School has 300 students. In Zoey's class, 2 out of 5 students belong to a club. How many students at the school would you expect belong to a club?

- A) 225
- B) 150
- C) 120
- D) 140

$$\frac{2}{5} \times 300 = \frac{2 \times 5 \times 60}{5} = 2 \times 60 = 120$$

Handwritten calculation showing $\frac{2}{5} \times 300 = \frac{2 \times 5 \times 60}{5} = 2 \times 60 = 120$, with the result 120 boxed.



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1-6

Use any strategy to solve each problem.

1. Mrs. Menary made $4 \frac{1}{2}$ quarts of lemonade for a school party. How many fluid ounces of lemonade did she make?

A) 16000

B) 4400

C) 12

D) 144

$$4.5 \times 2 \times 2 \times 8 =$$

$$4.5 \times 32 =$$

$$= 144 \text{ Fl-oz}$$

Capacity	
1 cup =	8 fluid ounces
1 pint =	2 cups
1 quart =	2 pints
1 gallon =	4 quarts

$$\begin{array}{r} 45 \\ \times 32 \\ \hline + 190 \\ \hline 1440 \end{array}$$

2. A class walked 2.5 miles for a walk-a-thon. How many yards did the class walk?

A) 16000

B) 4400

C) 12

D) 144

$$2.5 \times 1760$$

$$\begin{array}{r} 1760 \\ \times 25 \\ \hline \end{array}$$

$$\begin{array}{r} 1760 \\ + 35200 \\ \hline 44000 \end{array}$$

→ 4400 yard

Length	
1 foot =	12 inches
1 yard =	3 feet
1 mile =	1,760 yards

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3. The Martinez family has $\frac{3}{4}$ gallon of orange juice in the refrigerator. How many cups of orange juice are in the refrigerator?

A) 16000

B) 4400

C) 12

D) 144

$$\frac{3}{4} \times 2 \times 2$$

$$3 \times 2 \times 2$$

$$= 12 \text{ cups}$$

Capacity
1 cup = 8 fluid ounces
1 pint = 2 cups
1 quart = 2 pints
1 gallon = 4 quarts

4. A grand piano can weigh $\frac{1}{2}$ ton. How many ounces can a grand piano weigh?

A) 16000

B) 4400

C) 12

D) 144

$$\frac{1}{2} \times 2000 \times 16$$

$$= 1000 \times 16$$

$$= 16000$$

Weight
1 pound = 16 ounces
1 ton = 2,000 pounds

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7. An elephant can drink up to 6,400 fluid ounces of water a day. How many gallons of water can an elephant drink per day?

Small
↓
large.

- A) $3\frac{1}{2}$
- B) $33\frac{1}{3}$
- C) 1.5
- D) 50**

$$\begin{array}{r}
 6400 \\
 \hline
 8 \times 2 \times 2 \times 4 \\
 \hline
 6400 \\
 \hline
 64 \times 2 = 100 \\
 \hline
 100 \\
 \hline
 2 = 50
 \end{array}$$

Capacity	
1 cup =	8 fluid ounces
1 pint =	2 cups
1 quart =	2 pints
1 gallon =	4 quarts

8. A recipe for ice cream calls for 56 fluid ounces of milk. How many pints of milk are there in the recipe?

- A) $3\frac{1}{2}$**
- B) $33\frac{1}{3}$
- C) 1.5
- D) 50

$$\begin{array}{r}
 56 \\
 \hline
 8 \times 2 \\
 \hline
 8 \times 7 = 56 \\
 \hline
 8 \times 2 = 16 \\
 \hline
 3\frac{1}{2}
 \end{array}$$

Capacity	
1 cup =	8 fluid ounces
1 pint =	2 cups
1 quart =	2 pints
1 gallon =	4 quarts

$$\frac{7}{2} \text{ Big}$$



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 Scan me Scan me Scan me

1. A hippopotamus can run 6 kilometers in 15 minutes. At this rate, how far can the hippopotamus run in 1 minute?

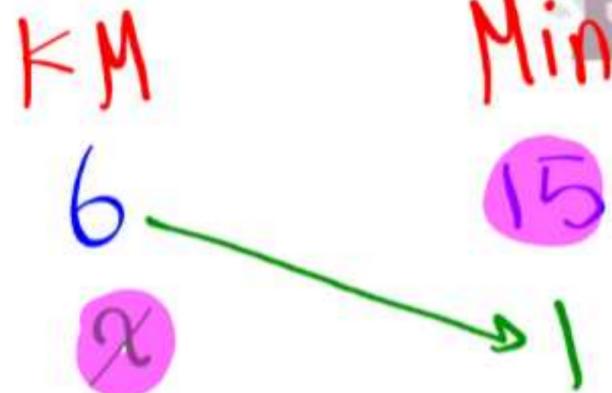
A) 0.2 km per min

B) 0.4 km per min

C) 0.8 km per min

D) 0.6 km per min

$$x = \frac{2 \times 3}{3 \times 5} = \frac{2}{5} \times 2 = \frac{4}{10} = \boxed{0.4}$$



2. Imena earned \$261 last week. If she worked 18 hours and earned the same amount each hour, how much was she paid per hour?

A) 14.50\$ per hour

B) 12.50\$ per hour

C) 15.50\$ per hour

D) 10.50\$ per hour

$$x = \frac{261 \times 1}{18} = 14.5$$

or 14.50





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1-7

3. A cat's heart beats approximately 45 times in 15 seconds. At this rate how many times does the cat's heart beat per second?

- A) 2 beats per second
- B) 3 beats per second**
- C) 5 beats per second
- D) 10 beats per second

	Times	Seconds
	45	15
	x	1
	$x = \frac{45 \times 1}{15} = \frac{15 \times 3}{15}$	
	$x = 3$	

4. Mr. Farley used 4 pounds of hamburger to make 10 hamburger patties of the same size. How many pounds of hamburger did he use per patty?

- A) 0.2 lb per hamburger patty
- B) 4 lb per hamburger patty
- C) 5 lb per hamburger patty
- D) 0.4 lb per hamburger patty**

	hamburger	pounds
	10	4
	x	1
	$x = \frac{4 \times 1}{10}$	

$$x = \frac{4}{10} = \boxed{0.4}$$



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5. At the school festival, Heather can buy 25 game tickets for \$10, or she can pay \$0.50 per game ticket. Which option has the lesser price per ticket?

Price ÷ N

$$* \frac{10}{25} = \frac{2 \times 5}{5 \times 5} = \frac{2}{5}$$

A) \$0.50 per game ticket

B) 25 – game tickets for \$10

$$\frac{2}{5} \times 2 = \frac{4}{10} = 0.40$$

* 0.50

The lesser is 0.40

6. At a toy store, Colton can buy a package of 6 mini footballs for \$7.50, or a package of 8 mini footballs for \$9.60. Which option has the lesser price per mini football?

A) 8 mini footballs for \$9.60

B) 6 mini footballs for \$7.50

$$* \begin{array}{r} 125 \\ 6 \overline{) 750} \\ \underline{6} \\ 150 \\ \underline{12} \\ 30 \\ \underline{30} \\ 0 \end{array}$$

$$* \begin{array}{r} 120 \\ 8 \overline{) 960} \\ \underline{8} \\ 160 \\ \underline{16} \\ 0 \end{array}$$

1.20 \$

✓ This is lesser

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