

تم تحميل هذا الملف من موقع المناهج الإماراتية



ملزمة أسئلة مراجعة وفق الهيكل الوزاري المسار المتقدم منهج ريفيل

موقع المناهج ← المناهج الإماراتية ← الصف السابع ← رياضيات ← الفصل الأول ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 2024-11-03 23:58:22

ملفات اكتب للمعلم اكتب للطالب الاختبارات الكترونية الاختبارات ا حلول اعروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك الامتحان النهائي للمدرس

المزيد من مادة
رياضيات:

إعداد: مدرسة المريحيب

التواصل الاجتماعي بحسب الصف السابع



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف السابع والمادة رياضيات في الفصل الأول

تجميعه أسئلة وفق الهيكل الوزاري منهج ريفيل

1

تجميعه أسئلة وفق الهيكل الوزاري حسب منهج بريدج

2

حل تجميعه أسئلة وفق الهيكل الوزاري حسب منهج بريدج

3

تجميعه أسئلة وفق الهيكل الوزاري الجديد منهج بريدج

4

الهيكل الوزاري الجديد المسار العام منهج ريفيل

5

GRADE 7 Advance: MATH EOT1 EXAM 2024-25-REVISION BOOKLET -1

Name: _____

Class: 7/ 5

Unit 1: Written part- Lesson 1.1 and 1.3, & MCQ: Lessons 2 1, 2.2, 2.3 and 2.6

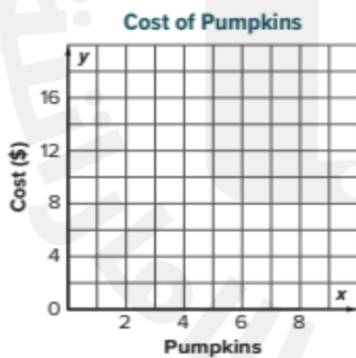
Written Part-Write all the steps

Determine if a relationship is proportional by analyzing its graph. Explain what the points (0,0) and (1,r) mean on the graph of a proportional relationship	Question 1-4	MODULE-1-L 1.3 Page: 39
Find the unit rates when one or both quantities are fractions	9-14	MODULE-1-L 1.3 Page: 12

Question 1 and 2:

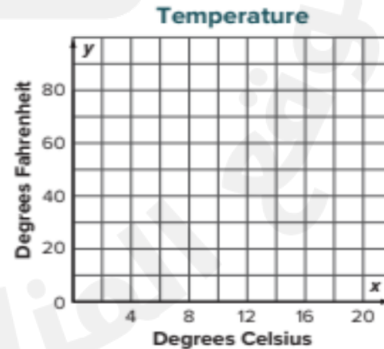
1. The cost of pumpkins is shown in the table. Determine whether the cost of a pumpkin is proportional to the number bought by graphing the relationship on the coordinate plane. Explain. (Example 1)

Number of Pumpkins	0	1	2	3	4
Cost (\$)	0	4	8	12	16



2. The table shows temperatures in degrees Celsius and their equivalent temperatures in degrees Fahrenheit. Determine whether the temperature in degrees Fahrenheit is proportional to the temperature in degrees Celsius by graphing the relationship on the coordinate plane. Explain. (Example 2)

Celsius (degrees)	0	5	10	15	20
Fahrenheit (degrees)	32	41	50	59	68





مؤسسة الإمارات
للتعليم المدرسي
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ESTABLISHMENT



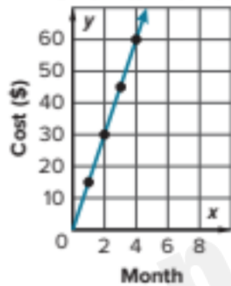
مؤسسة الإمارات
للتعليم المدرسي
نطاق 2 - مجلس 6
أبوظبي
مدرسة المريجيبي ح2 إناث



وزارة التربية والتعليم
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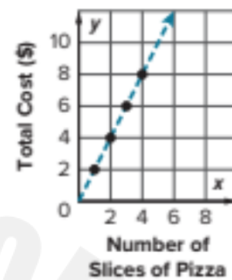
3. The total cost of online streaming is proportional to the number of months. What is the constant of proportionality? (Example 3)

Online Streaming of TV Shows/Movies



4. Open Response The cost per slice of pizza is proportional to the number of slices as shown in the graph. What do the points (0, 0) and (1, 2) represent? (Example 4)

Pizza Slices Cost



Question 5:

During the first seconds after takeoff, a rocket traveled 208 kilometers in 50 minutes at a constant rate. Suppose a penny is dropped from a skyscraper and could travel 153 kilometers in $\frac{1}{2}$ hour at a constant rate. Which of these objects has a faster unit rate per hour? How much faster?

Question 6:

To prepare for a downhill skiing competition, Roman completed three training sessions. The table shows his average time and distance for each session. Did Roman's rate, in miles per hour, increase from session to session? Write an argument that can be used to defend your solution.

Session	Time (hr)	Distance (mi)
1	$\frac{2}{125}$	$\frac{9}{10}$
2	$\frac{3}{200}$	$\frac{11}{12}$
3	$\frac{3}{250}$	$\frac{17}{20}$

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مؤسسة الإمارات
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Question 7 and 8:

MP Reason Abstractly Explain why a student who runs $\frac{3}{4}$ mile in 6 minutes is faster than a student who runs $\frac{1}{2}$ mile in 5 minutes.

12. Compare and contrast the rates $\frac{4}{5}$ mile in 8 minutes and 4 minutes to travel $\frac{2}{5}$ mile.

Question 9 and 10:

MP Reason Abstractly Explain why a student who runs $\frac{3}{4}$ mile in 6 minutes is faster than a student who runs $\frac{1}{2}$ mile in 5 minutes.

12. Compare and contrast the rates $\frac{4}{5}$ mile in 8 minutes and 4 minutes to travel $\frac{2}{5}$ mile.

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MCO- Choose the correct answer

Use models and ratio reasoning to understand how a proportional relationship can exist between quantities	1-7 3-4	MODULE-1-L 1.2 : Page:19 Test Practice Page 59
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Question 11:

A salad dressing calls for 3 parts oil and 1 part vinegar. Manuela uses 2 tablespoons of vinegar and 6 tablespoons of oil to make her salad dressing. This situation Blank 1 a proportional relationship because Blank 2

Blank 1 options:

- a) Represent
- b) Does not represent

Blank 2 options:

- c) both have a ratio of 2 : 3
- d) both have a ratio of 3 : 1
- e) the ratios are different

Question 12:

A salad dressing calls for 3 parts oil and 1 part vinegar. Manuela uses 2 tablespoons of vinegar and 6 tablespoons of oil to make her salad dressing. This situation Blank 1 a proportional relationship because Blank 2

Blank 1 options:

- a) Represent
- b) Does not represent

Blank 2 options:

- c) both have a ratio of 2 : 3
- d) both have a ratio of 3 : 4
- e) the ratios are different

Question 13:

A saltwater solution for an aquarium calls for 35 parts salt to 1000 parts water. Tareq used 7 tablespoons of salt and 200 tablespoons of water. This situation Blank 1 a proportional relationship because Blank 2

Blank 1 options:

- a) Represent
- b) Does not represent

Blank 2 options:

- c) both have a ratio of 7 : 200
- d) both have a ratio of 3 : 125
- e) the ratios are different

Question 14:

A conveyor belt moves at a constant rate of 12 feet in 3 seconds. A second conveyor belt moves at a constant rate of 16 feet in 4 seconds. This situation Blank 1 a proportional relationship because Blank 2

Blank 1 options:

- a) Represent
- b) Does not represent

a proportional relationship because Blank 2

Blank 2 options:

- c) both have a ratio of 1 foot to 4 seconds
- d) both have a ratio of 4 feet to 1 second
- e) the ratios are different

Question 15:

A tectonic plate in the Earth's crust moves at a constant rate of 4 centimeters per year. In a different part of the Earth, another tectonic plate moves at a constant rate of 30 centimeters in ten years. This situation Blank 1 a proportional relationship because Blank 2

Blank 1 options:

- a) Represent
- b) Does not represent

Blank 2 options:

- c) both have a ratio of 1 foot to 4 seconds
- d) both have a ratio of 4 feet to 1 second
- e) the ratios are different

Question 16:

A strand of hair grows at a constant rate of $\frac{1}{2}$ inch per month. A different strand of hair grows at a constant rate of 4 inches per year. This situation Blank 1 a proportional relationship because Blank 2

Blank 1 options:

- a) Represent
- b) Does not represent

Blank 2 options:

- c) both have a ratio of 1 foot to 4 seconds
- d) both have a ratio of 4 feet to 1 second
- e) the ratios are different

Question 17

One blend of garden soil is 1 part minerals, 1 part peat moss, and 2 parts compost. Which of the mixtures below are in a proportional relationship with this blend? Select all that apply.

- a) 5 ft³ minerals, 5 ft³ peat moss, 10 ft³ compost
- b) 10 ft³ minerals, 15 ft³ peat moss, 15 ft³ compost
- c) 12 ft³ minerals, 12 ft³ peat moss, 24 ft³ compost
- d) 20 ft³ minerals, 20 ft³ peat moss, 40 ft³ compost
- e) 50 ft³ minerals, 50 ft³ peat moss, 50 ft³ compost

f) 100 ft^3 minerals, 100 ft^3 peat moss, 200 ft^3 compost

Question 18

One recipe for homemade playdough calls for 4 parts flour, 1 part salt, and 2 parts water. Which of the mixtures below are in a proportional relationship with this recipe? Select all that apply.

- a) 1 cup flour, 1 cup salt, 1 cup water
- b) 2 cups flour, $\frac{1}{2}$ cup salt, $\frac{1}{2}$ cup water
- c) 10 cups flour, 1 cup salt, 2 cups water
- d) 8 cups flour, 2 cups salt, 4 cups water
- e) 6 cups flour, $1\frac{1}{2}$ cups salt, 3 cups water

Question 19:

The ratio of Braydon's number of laps he ran to the time he ran is 6 : 2. The ratio of Monique's number of laps she ran to the time she ran is 10 : 4. Explain why these ratios are not in a proportional relationship.

Determine whether two quantities shown in the table are in a proportional relationship by testing for equivalent ratios

1-8

MODULE-1 -L 1.3
Page: 29

Question 20 – 23:

For each situation, complete the table given. Does the situation represent a proportional relationship? Explain.

1. The cost of a school lunch is \$2.50.
(Example 1)

Lunches Bought	1	2	3	4
Total Cost (\$)				

2. Anna walks her dog at a constant rate of 12 blocks in 8 minutes. (Example 1)

Number of Blocks	12	24	36	48
Number of Minutes				

3. Fun Center rents popcorn machines for \$20 per hour. In addition to the hourly charge, there is a rental fee of \$35. (Example 2)

Hours	1	2	3	4
Cost (\$)				

4. Jean has \$280 in her savings account. Starting next week, she will deposit \$30 in her account every week. (Example 2)

Weeks	1	2	3	4
Savings (\$)				



Question 24 – 27:

5. Rocko paid \$12.50 for 25 game tickets. Louisa paid \$17.50 for 35 game tickets. What is the constant of proportionality? (Example 3)
6. A baker, in 70 minutes, iced 40 cupcakes and, in 49 minutes, iced 28 cupcakes. What is the constant of proportionality? (Example 3)

7. The table shows the amount of dietary fiber in bananas. Use the table to find the constant of proportionality. (Example 4)

Dietary Fiber (g)	9.3	18.6	27.9	37.2
Bananas	3	6	9	12

Test Practice

8. **Open Response** The table shows the distance traveled by a runner. Use the table to find the constant of proportionality.

Distance (mi)	4.55	13.65	22.75	31.85
Time (h)	0.5	1.5	2.5	3.5

Write equations to represent proportional relationships

8-13

MODULE-2-L 2.3

Page: 48

Question 28:

Roman can type 3 pages in 60 minutes. How many more pages can Roman type in 90 minutes than in 60 minutes? Assume the relationship is proportional and he types at a constant rate.

- a) 1 page
b) 1.5 pages
c) 2 pages
d) 2.5 pages

Question 29:

On average, Asia makes 14 out of 20 free throws. Assuming the relationship is proportional, how many more free throws is she likely to make if she shoots 150 free throws?

- a) 91
- b) 105
- c) 119
- d) 126

Question 30:

The Diaz family spent \$38.25 on 3 large pizzas. What is the cost of one large pizza? Assume the situation is proportional.

- a) \$10.75
- b) \$12.75
- c) \$13.25
- d) \$13.75

Question 31:

Determine whether the statement is true or false. If false, give a counterexample. The constant of proportionality in an equation can never be 0.

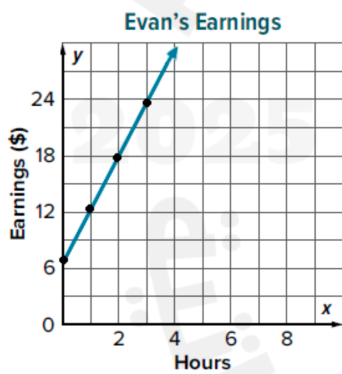
- a) True
- b) False; $y = 2x$
- c) False; $y = 0x$
- d) False; $y = x + 0$

Question 32:

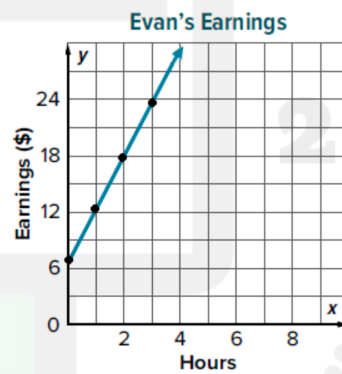
A recipe for homemade modeling clay includes one-third cup of salt for every cup of water. If there are 6 cups of salt, how many gallons of water are needed? Identify the constant of proportionality. Explain your reasoning.

- 2 gallons; The constant of proportionality is 3 because there are 3 cups of water for every cup of salt.
- 18 gallons; The constant of proportionality is $\frac{1}{3}$ because there is $\frac{1}{3}$ cup of salt for every cup of water.
- 1.5 gallons; The constant of proportionality is 3 because there are 3 cups of water for every cup of salt.
- 0.5 gallons; The constant of proportionality is $\frac{1}{3}$ because there is $\frac{1}{3}$ cup of salt for every cup of water.

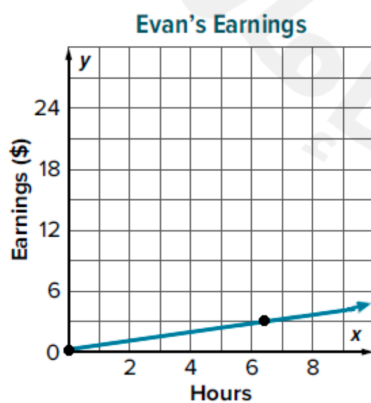
Question 33: Evan earned \$26 for 4 hours of babysitting. Which of the following is the graph of the equation that represents this relationship?



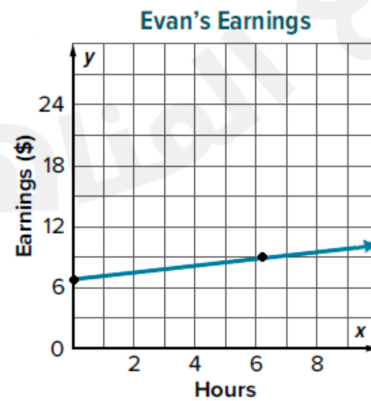
A



B



C



D

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Solve problems involving proportional relationships by making a table, using a graph, or writing an equation

7-12

MODULE-2-L 2.6

Page:127

Question 34: The ratio of kids to adults at a school festival is 11 : 7. Suppose there are a total of 810 kids and adults at the festival. How many adults are at the festival?

- a) 280
- b) 315
- c) 350
- d) 560

Question 35: The ratio of laptops to tablets in the stock room of a store is 13 : 17. If there are a total of 90 laptops and tablets in the stock room, how many laptops are in the stock room?

- a) 39
- b) 45
- c) 48
- d) 51

Question 36:

Persevere with Problems Lisa is painting the exterior surfaces at her home. A gallon of paint will cover 350 square feet.

Item to Paint	Length (ft)	Width (ft)
Fence	26	7
Barn Door	11	6

How many gallons of paint will Lisa need to paint one side of her fence? Explain how you solved.

Question 37: The rate of growth for a plant is 0.2 centimeter per 0.5 day. A student found the number of days for the plant to grow 3.6 centimeters to be 1.44 days. Find the error and correct it.

- The student divided the growth rate by the desired growth. The correct answer is 9 days.
- The student multiplied the growth rate by the desired growth. The correct answer is 7.2 days.
- The student did not convert centimeters to millimeters. The correct answer is 14.4 days.
- The student incorrectly calculated the growth rate per day. The correct answer is 3.6 days.

Question 38: Create

Write a real-world problem involving a proportional relationship. Then solve the problem.

Question 39: When is it more beneficial to solve a problem involving a proportional relationship using an equation than using a graph? Select all that apply.

- when the numbers are large
- when the numbers are small
- when the numbers are rational
- when the numbers are negative
- when the numbers are whole numbers

Use the simple interest formula to find the amount of interest earned for a given principal, at a given interest rate, for a given period of time

1-10

MODULE-2-L 2.5
Page:105

Question 40: Find the simple interest earned, to the nearest cent, for the principal, interest rate, and time. \$530, 6%, 1 year

- a) \$3.18
- b) \$31.80
- c) \$318.00
- d) \$561.80

Question 41: Find the simple interest earned, to the nearest cent, for the principal, interest rate, and time. \$1,200, 3.5%, 2 years

- a) \$8.40
- b) \$42.00
- c) \$84.00
- d) \$128.40

Question 42: Find the simple interest earned, to the nearest cent, for the principal, interest rate, and time. \$750, 7%, 3 years

- a) \$15.75
- b) \$52.50
- c) \$157.50
- d) \$907.50

Question 43: Elena's father put \$460 into a savings account for her. The account pays 2.5% simple interest each year. If he neither adds nor withdraws money from the account, how much interest will the account earn after 4 years? Round to the nearest cent.

- a) \$4.60
- b) \$11.50
- c) \$46.00
- d) \$506.00

Question 44: Ethan put \$1,250 into a savings account. The account pays 4.5% simple interest on an annual basis. If he does not add or withdraw money from the account, how much interest will he earn after 2 years? Round to the nearest cent.

- a) \$56.25
- b) \$112.50
- c) \$136.25
- d) \$1,362.50

Question 45: Marc deposits \$840 into a savings account. The account pays 2% simple interest on an annual basis. If he does not add or withdraw money from the account, how much interest will he earn after 6 months? Round to the nearest cent.

- a) \$8.40
- b) \$16.80
- c) \$42.00
- d) \$84.00

Question 46: Nina's grandmother deposits \$3,000 into a savings account for her. The account pays 5.5% simple interest on an annual basis. If she does not add or withdraw money from the account, how much interest will she earn after 21 months? Round to the nearest cent.

- a) \$165.00
- b) \$275.00
- c) \$288.75
- d) \$3,288.75

Question 47: Jack borrows \$2,700 at a rate of 8.2% per year. How much simple interest will he owe if it takes 3 months to repay the loan? Round to the nearest cent.

Question 48: Liliya's parents borrow \$1,400 from the bank for a new washer and dryer. The interest rate is 7.5% per year. How much simple interest will they pay if they take 18 months to repay the loan? Round to the nearest cent.

Question 49:

The table shows the interest rates for auto repair loans based on how long it takes to pay off the loan.

Time	Rate (%)
6 months	3.5
12 months	4.0
18 months	4.25

Jin borrows \$3,600 and plans to pay the loan off in 18 months. How much simple interest will he owe if it takes 18 months to repay the loan? Round to the nearest cent.

\$ _____