

## شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



## حل مراجعة وفق الهيكل الوزاري ريفيل

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

تاريخ نشر الملف على موقع المناهج: 08:06:10 2023-11-09 | اسم المدرس: طارق علي

## التواصل الاجتماعي بحسب الصف السابع



## روابط مواد الصف السابع على تلغرام

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## المزيد من الملفات بحسب الصف السابع والمادة رياضيات في الفصل الأول

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**هيكل 7 متقدم - نخبة سابقا 2024**

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1. A truck driver drove 48 miles in 45 minutes. At this rate, how many miles can the truck driver drive in one hour?

A) 124.8

B)  $\frac{9}{50}$

C) 64

D) 40

$$\frac{45}{60} = \frac{3 \times 15}{4 \times 15} = \frac{3}{4} h$$

$$48 \div \frac{3}{4} = 48 \times \frac{4}{3}$$

$$\frac{6 \times 8 \times 4}{3} = \frac{3 \times 2 \times 8 \times 4}{3} = 8 \times 8 = 64$$

2. Russell runs  $\frac{9}{10}$  mile in 5 minutes. At this rate, how many miles can he run in one minute?

A) 124.8

B)  $\frac{9}{50}$

C) 64

D) 40

units same.

$$\frac{\text{mile}}{\text{min}} = \frac{9}{10} \times \frac{1}{5}$$

$$\frac{9 \times 1}{10 \times 5} = \frac{9}{50}$$

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3. A small airplane flew 104 miles in 50 minutes. At this rate, how many miles can it fly in one hour? (50 minutes =  $\frac{5}{6}$  hour)

A) 124.8

B)  $\frac{9}{50}$

C) 64

D) 40

$$\frac{\text{miles}}{\text{min}} = 104 \div \frac{5}{6}$$

$$104 \times \frac{6}{5} = \frac{624}{5} = 124.8$$

$$\begin{array}{r} 124.8 \\ 5 \overline{)624} \\ \underline{5} \phantom{00} \\ 124 \phantom{0} \\ \underline{104} \phantom{0} \\ 24 \phantom{0} \\ \underline{20} \phantom{0} \\ 40 \phantom{0} \\ \underline{40} \\ 0 \end{array}$$

4. DeAndre downloaded 8 apps onto his tablet in 12 seconds. At this rate, how many apps could he download in one minute?

(12 seconds =  $\frac{1}{5}$  minute)

A) 124.8

B)  $\frac{9}{50}$

C) 64

D) 40

$$\frac{\text{apps}}{\text{minute}} = \frac{8}{\frac{1}{5}} = 8 \div \frac{1}{5} = 40$$

$$8 \times \frac{5}{1} = \frac{40}{1} = 40$$



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5. In Lixue's garden, the green pepper plants grew 5 inches in  $\frac{3}{4}$  month. At this rate, how many feet can they grow in one month? (Let

5 inches =  $\frac{5}{12}$  foot)

$\frac{\text{Foot}}{\text{Month}} = \frac{5}{12} \div \frac{3}{4}$

A)  $\frac{1}{5}$

B)  $\frac{5}{7}$

C)  $\frac{5}{9}$

D)  $\frac{3}{5}$

$\frac{5}{12} \times \frac{4}{3} = \frac{5 \times 4}{3 \times 4 \times 3}$

$\frac{5}{9}$

6. Thunder from a bolt of lightning travels  $\frac{1}{10}$  mile in  $\frac{1}{2}$  second. At this rate, how many miles can it travel in one second?

A)  $\frac{1}{5}$

B)  $\frac{5}{7}$

C)  $\frac{5}{9}$

D)  $\frac{3}{5}$

$\frac{1}{10} \div \frac{1}{2} = \frac{1}{10} \times \frac{2}{1}$

$\frac{1 \times 2}{2 \times 10} = \frac{1}{5}$

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7. The average sneeze can travel  $\frac{3}{100}$  mile in 3 seconds. At this rate, how far can it travel in one minute? (3 seconds =  $\frac{1}{20}$  minute)

- A) 5 miles
- B)  $\frac{3}{5}$  miles
- C) 3 miles
- D)  $\frac{2}{5}$  miles

$$\frac{3}{100} \cdot \frac{1}{20} = \frac{3}{100} \times \frac{20}{1}$$

$$\frac{3 \times 2}{10} = \frac{3 \times 2}{2 \times 5} = \frac{3}{5}$$

8. **Multiselect** Anita is making headbands for her softball team. She needs a total of  $\frac{3}{4}$  yard of fabric. Select all types of fabric that cost less than \$8 per yard.

- cotton
- flannel
- fleece
- terry cloth

Fabric	Total Cost for $\frac{3}{4}$ Yard (\$)
Cotton	5.54
Flannel	2.62
Fleece	4.27
Terry Cloth	6.52

$$* 5.54 \div \frac{3}{4}$$

$$5.54 \times \frac{4}{3} = 7.3866$$

$$22.16 \div 3 = 7.3866$$

cotton = 7.38.66 → 7.386  
 ≈ 7.39 ✓



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$$* 2.62 \div \frac{3}{4} = 2.62 \times \frac{4}{3} = \frac{10.48}{3}$$

$$349.3 \rightarrow 3.493$$

$$\boxed{3.49} \checkmark$$

$$\begin{array}{r} 3 \overline{) 10.48} \\ \underline{9} \phantom{0} \\ 148 \\ \underline{12} \phantom{0} \\ 28 \\ \underline{27} \\ 10 \\ \underline{9} \\ 10 \end{array}$$

$$* 4.27 \div \frac{3}{4} = 4.27 \times \frac{4}{3}$$

$$\frac{17.08}{3}$$

$$569.3 \Rightarrow 5.693$$

$$\boxed{5.69} \checkmark$$

$$\begin{array}{r} 3 \overline{) 17.08} \\ \underline{15} \phantom{0} \\ 208 \\ \underline{18} \\ 28 \\ \underline{27} \\ 10 \\ \underline{9} \\ 10 \end{array}$$

$$* 6.52 \div \frac{3}{4} = 6.52 \times \frac{4}{3}$$

$$\frac{26.08}{3}$$

$$869.3 \Rightarrow \boxed{8.69}$$

$$\begin{array}{r} 3 \overline{) 26.08} \\ \underline{24} \phantom{0} \\ 208 \\ \underline{18} \phantom{0} \\ 28 \\ \underline{27} \\ 10 \\ \underline{9} \\ 10 \end{array}$$

More.





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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.

Lunches Bought	1	2	3	4
Total Cost (\$)	2.50			

$1 \times 2.50 = 2.50$   
 $2 \times 2.50 = 5$   
 $3 \times 2.50 = 7.50$   
 $4 \times 2.50 = 10$

A	Lunches Bought	1	2	3	4
	Total Cost (\$)	2.5	5.5	7.5	10.5
B	Lunches Bought	1	2	3	4
	Total Cost (\$)	2.50	5.00	7.50	10.00
C	Lunches Bought	1	2	3	4
	Total Cost (\$)	2	5	7	10
D	Lunches Bought	1	2	3	4
	Total Cost (\$)	2.25	5.25	7.25	10.25

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

Number of Blocks	12	24	36	48
Number of Minutes	8			

$2 \times 8 = 16$   
 $3 \times 8 = 24$   
 $4 \times 8 = 32$

A	Number of Blocks	12	24	36	48
	Number of Minutes	14	16	19	27
B	Number of Blocks	12	24	36	48
	Number of Minutes	8	16	24	32
C	Number of Blocks	12	24	36	48
	Number of Minutes	24	48	108	192
D	Number of Blocks	12	24	36	48
	Number of Minutes	55	75	95	115

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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 (\$)	55	75	95	115

A	Number of Blocks	12	24	36	48
	Number of Minutes	14	16	19	27
B	Number of Blocks	12	24	36	48
	Number of Minutes	8	16	24	32
C	Number of Blocks	12	24	36	48
	Number of Minutes	24	48	108	192
D	Number of Blocks	12	24	36	48
	Number of Minutes	55	75	95	115

20 دولار كل ساعة  
 $Cost = 20 + 35 = 55$   
 يعني نزيد له  
 حرة 20  
 $20 + 55 = 75$   
 $20 + 75 = 95$   
 $20 + 95 = 115$

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

Weeks	1	2	3	4
Savings (\$)	310	340	370	

A	Hours	1	2	3	4
	Cost (\$)	310	340	370	400
B	Hours	1	2	3	4
	Cost (\$)	300	330	360	390
C	Hours	1	2	3	4
	Cost (\$)	280	310	340	370
D	Hours	1	2	3	4
	Cost (\$)	280	340	370	400

$280 + 30 = 310$   
 $30 + 310 = 340$   
 $30 + 340 = 370$   
 $30 + 370 = 400$





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5. Rocko paid \$12.50 for 25 game tickets. Louisa paid \$17.50 for 35 game tickets. What is the constant of proportionality?

A) 1.75

B) 9.1

C) 0.50

D) 3.1

$$k = \frac{y}{x} = \frac{\text{Cost}}{N} = \frac{12.50}{25}$$

$$25 \overline{)1250} \begin{array}{r} 50 \\ \underline{1250} \\ 0 \end{array}$$

$$k = 0.50$$

6. A baker, in 70 minutes, iced 40 cupcakes and, in 49 minutes, iced 28 cupcakes. What is the constant of proportionality?

A) 1.75

B) 9.1

C) 0.50

D) 3.1

$$\frac{\text{minutes}}{\text{cupcakes}} = \frac{40}{28} = \frac{7}{4} \text{ Big}$$

Mixed Fraction =  $1 \frac{3}{4}$

$$1.75$$

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

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

A) 1.75

B) 9.1

C) 0.50

D) 3.1

$$k = \frac{9.3}{3} = 3.1$$

$$k = 3.1$$

$$\begin{array}{r} 31 \\ 3 \overline{) 93} \\ \underline{- 93} \\ 0 \end{array}$$

سماحان

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

A) 1.75

B) 9.1

C) 0.50

D) 3.1

$$k = \frac{4.55}{0.5} = 9.1$$

$$\begin{array}{r} 91 \\ 5 \overline{) 455} \\ \underline{- 455} \\ 0 \end{array}$$

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9. The table shows the amount a restaurant is donating to a local school based on various dinner bills. Is the amount of the donation proportional to the dinner bill? If so, what would be the donation for a dinner bill of \$50? If not, explain.

Donations	
Dinner Bill (\$)	Donation (\$)
25	4.50
30	5.40
35	6.30
40	7.20

$$5.40 - 4.50 = 0.90$$

$$6.30 - 5.40 = 0.90$$

$$7.20 - 6.30 = 0.90$$

A) 0.18, yes

B) 9\$, yes

C) 0.68, yes

D) not

$$k = \frac{\text{Donation}}{\text{Dinner}} = 0.9 \div 5$$

$$1.8 \rightarrow 0.18$$

$$\begin{array}{r} 5 \overline{) 9} \\ \underline{-5} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

10. The table shows the cost to mail various letters based on different weights. Is the cost of mailing a letter proportional to the weight? If so, what would be the cost of mailing a 6-ounce letter? If not, explain.

Mailing Costs	
Weight (oz)	Cost (\$)
1	0.47
2	0.68
3	0.89
4	1.10

$$0.68 - 0.47 = 0.21$$

$$0.89 - 0.68 = 0.21$$

$$1.10 - 0.89 = 0.21$$

A) 0.18, yes

B) 9\$, yes

C) 0.68, yes

D) not

different Not proportional



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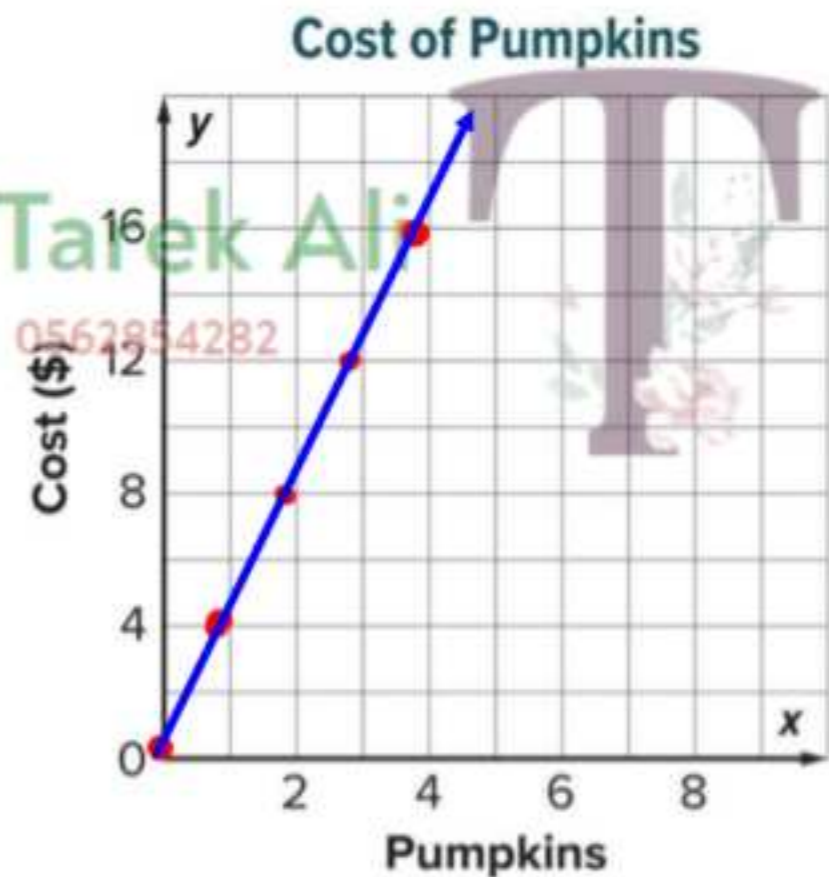
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1. The cost of pumpkins is shown in the table. Determine whether the cost of a pumpkin is proportional to the number bought by graphing the relationship on the coordinate plane. Explain.

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



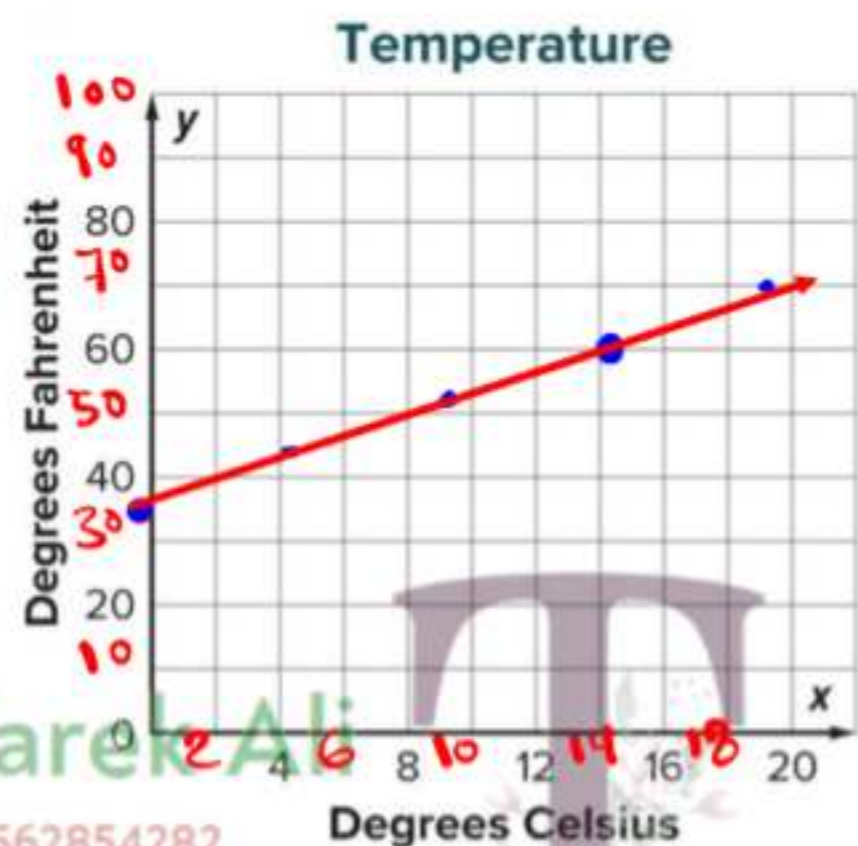
A) proportional

B) not proportional

① Pass (0,0)  
② straight line

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.

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



A) proportional

B) not proportional



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3. The total cost of online streaming is proportional to the number of months. What is the constant of proportionality?

Online Streaming of TV Shows/Movies



- A) 20
- B) 5
- C) 15**
- D) 3

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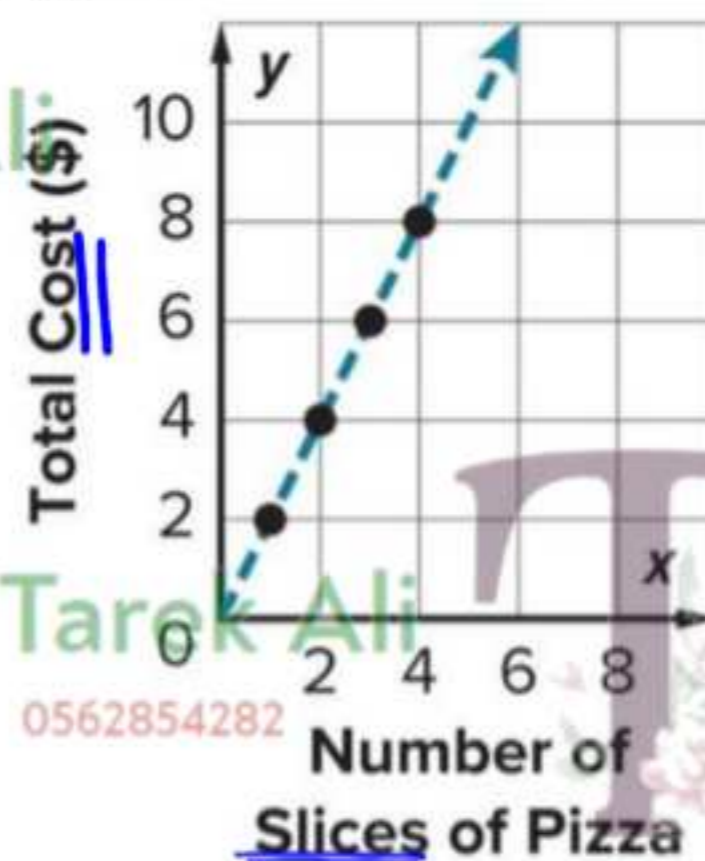
$$K = \frac{y}{x}$$

$$k = \frac{30}{2}$$

$$k = 15$$

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?

Pizza Slices Cost



$(0,0)$  → 0 slices, 0 cost

$(1,2)$  → 1 slice, 2 \$ cost.

- A) The point (0, 0) means that 0 slices cost \$0. –The point (1, 2) means that 1 slice costs \$2**
- B) The point (0, 0) means that 0 slices cost \$0. –The point (1, 2) means that 2 slice costs \$1.
- C) The point (0, 0) means that 0 slices cost \$1. –The point (1, 2) means that 2slice costs \$2.
- D) The point (0, 0) means that 1 slices cost \$0. –The point (1, 2) means that 1 slice costs \$1.



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6. **MP Identify Repeated Reasoning** Suppose a relationship is proportional and the point (4, 10) lies on the graph of the proportional relationship. Name another point, other than (0, 0), that lies on the graph of the line.

A) (5,10) 0562854282

B) (6,12)

C) (3,6)

D) (2,5)

(4, 10) even

$$4 \div 2 = 2$$

$$10 \div 2 = 5 \rightarrow (2, 5)$$

7. **MP Make an Argument** Determine if a line can have a constant rate and not be proportional. Write an argument to defend your response.

For example,

renting a boat where there is an initial fee and then a cost per hour would have a constant rate but not pass through the origin.



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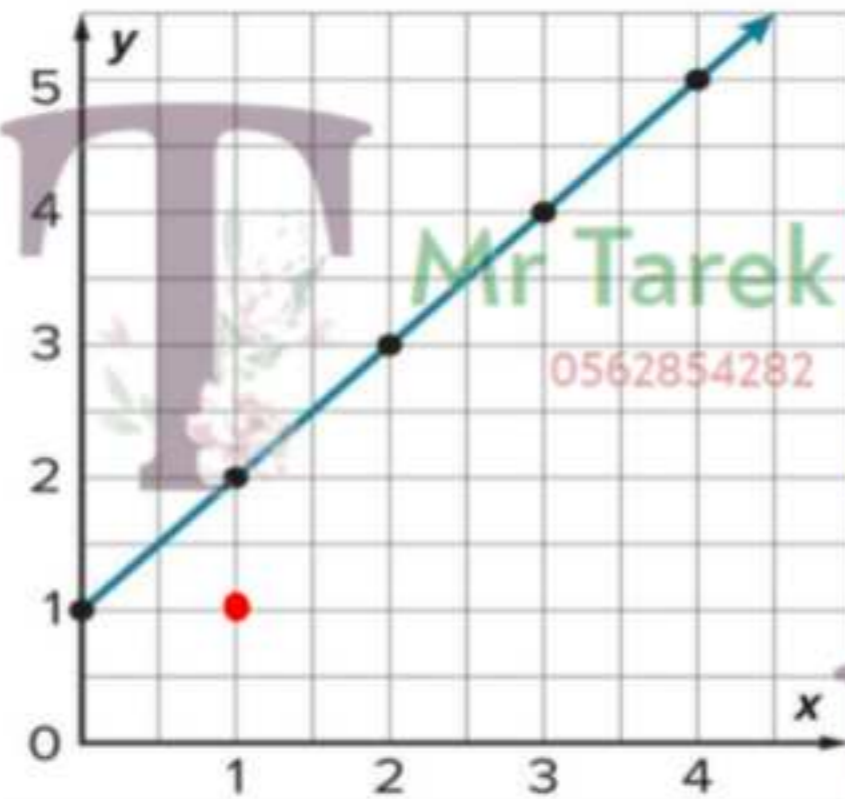


جميع الجروبات وقنوات التليجرام والواتس والموقع الالكتروني اضبط على الروابط

<https://www.youtube.com/@MrTarekAli2> YouTube

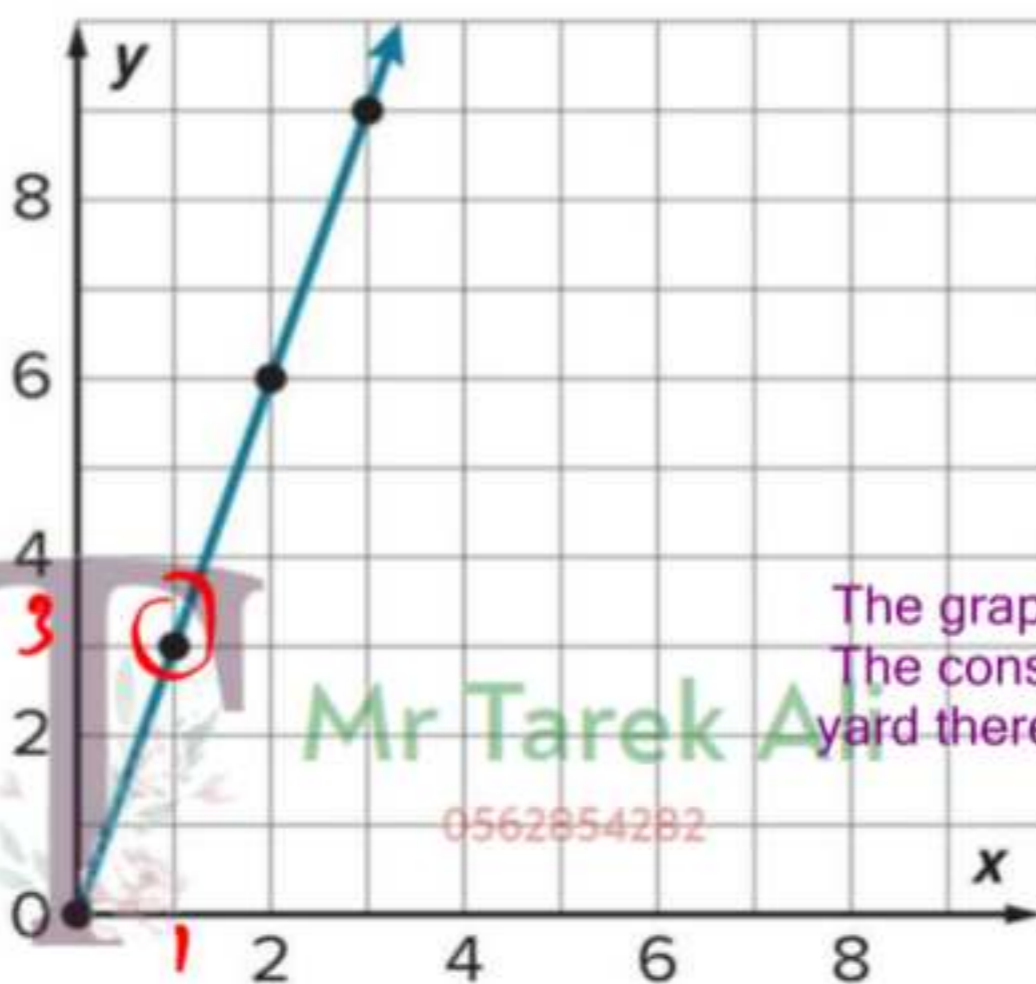


**8. MP Find the Error** Karl said the point (1, 1) represents the constant of proportionality for the graph shown. Find his error and correct it.



The graph of the line is **not proportional** because it does not pass through the origin so the graph cannot have a constant of proportionality.

**9. Create** The graph of a proportional relationship is shown. Describe a real-world situation that could be represented by the graph. Be sure to include the meaning of the constant of proportionality.



$$\text{Constant} = \frac{y}{x} = \frac{3}{1} = 3$$

The graph shows the number of feet per yard. The constant of proportionality is 3, so, for every yard there are 3 feet.

Private lessons

0562854282

معلم الرياضيات

الأستاذ / طارق علي