

ريڤيل ماث ( عام )  
الصف الخامس  
[ الجزء الكتابي ]

**Part 3 (FRQ)**

**6-7 Questions, Paper based:  
20 mark**

1. Sonya is making muffins. The recipe uses  $\frac{1}{2}$  cup of flour and makes 12 mini muffins. How many cups of flour should Sonya use to make 6 muffins?

A.  $\frac{1}{24}$  cup

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

C.  $\frac{1}{6}$  cup

D.  $\frac{1}{12}$  cup

1  
2

$$12 \div 6 = 2$$

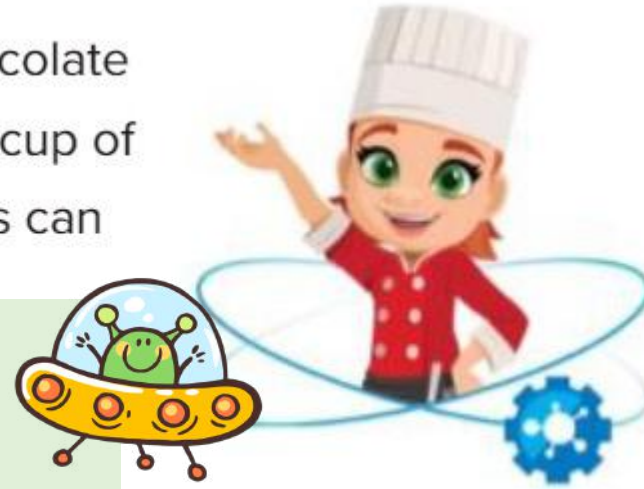
Keep Change Flip

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

$$\frac{1}{2} \times \frac{1}{2} = \frac{1 \times 1}{2 \times 2} = \frac{1}{4} \text{ cup}$$



- 2. STEM Connection** Saffron has 4 cups of chocolate chips. She has a muffin recipe that calls for  $\frac{1}{8}$  cup of chocolate chips per muffin. How many muffins can Saffron make?



**1**

$$4 \div \frac{1}{8} =$$

**2**

Keep Change FLip

$$4 \times \frac{8}{1} = \frac{4 \times 8}{1 \times 1} = \frac{32}{1} = 32 \text{ muffins}$$

3. Mr. Kline is making vegetable soup. His recipe makes 12 servings and uses  $\frac{1}{3}$  pound of peas. How many pounds of peas does he need to make 6 servings?

A.  $\frac{1}{36}$  pound    B.  $\frac{1}{6}$  pound    C.  $\frac{1}{4}$  pound    D. 4 pounds

1  
2

$$12 \div 6 = 2$$



$$\frac{1}{3} \div 2 =$$



$$\frac{1}{3} \times \frac{1}{2} = \frac{1 \times 1}{3 \times 2} = \frac{1}{6} \text{ pound}$$

4. Ms. Jorge is dividing 4 pounds of gardening soil equally for 5 potted plants. How many pounds of soil will be in each pot?

# 1

$$4 \div 5 =$$



# 2

Keep Change Flip

$$\frac{4}{1} \times \frac{1}{5} = \frac{4 \times 1}{1 \times 5} = \frac{4}{5} \text{ pound}$$

5. A zoo has 5 pounds of fruit and 3 pounds of lettuce to divide equally among 3 gorillas. How many total pounds of fruit and lettuce will each gorilla get?

$$1. \text{ Fruit : } 5 \div 3 = \frac{5 \times 1}{1 \times 3} = \frac{5}{3} \text{ pound fruit}$$

$$2. \text{ Lettuce : } 3 \div 3 = \frac{3 \times 1}{1 \times 3} = \frac{3}{3} = 1 \text{ pound lettuce ]}$$

6. A relay race is  $\frac{1}{2}$  mile long. How far does each person run if there are 3 members on the team?

$$\frac{1}{2} \div 3 = \frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \boxed{\frac{1}{6}} \text{ mile}$$

7. Shaun is making 3 bags of trail mix. He has  $\frac{1}{5}$  pound of dried cranberries to divide equally among the bags. How many pounds of dried cranberries will be in each bag?

$$\frac{1}{5} \div 3 = \frac{1}{5} \times \frac{1}{3} = \boxed{\frac{1}{15}} \text{ pound}$$

- A.  $\frac{1}{15}$  pound      B.  $\frac{3}{5}$  pound      C.  $\frac{1}{3}$  pound      D. 15 pounds

8. Lucy brings 4 cakes to the bake sale. Each piece of cake is  $\frac{1}{6}$  of the whole. How many pieces of cake does she have? Write and solve the equation.

$$4 \div \frac{1}{6} \Rightarrow 4 \times \frac{6}{1} = \frac{4 \times 6}{1} = \frac{24}{1} = \boxed{24} \text{ pieces}$$



9. Mike made 60 cookies. He divided the cookies equally among his 8 friends and kept the rest for himself. How many cookies did Mike give his friends, and how many did he keep?

$$\frac{60}{8} = 7 R 4, \text{ he gave his friends 7 and he keep 4 for himself.}$$

$$\begin{array}{r} 7 \\ 8 \overline{) 60} \\ \underline{56} \\ 4 R \end{array}$$

10. Ingrid buys this piece of cheese. She uses equal amounts of it to make 3 sandwiches. How much cheese is on each sandwich?

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

$$\frac{1}{4} \times \frac{1}{3} = \frac{1 \times 1}{4 \times 3} = \boxed{\frac{1}{12}} \text{ lb}$$





Plot and label the point for each place shown in the table.

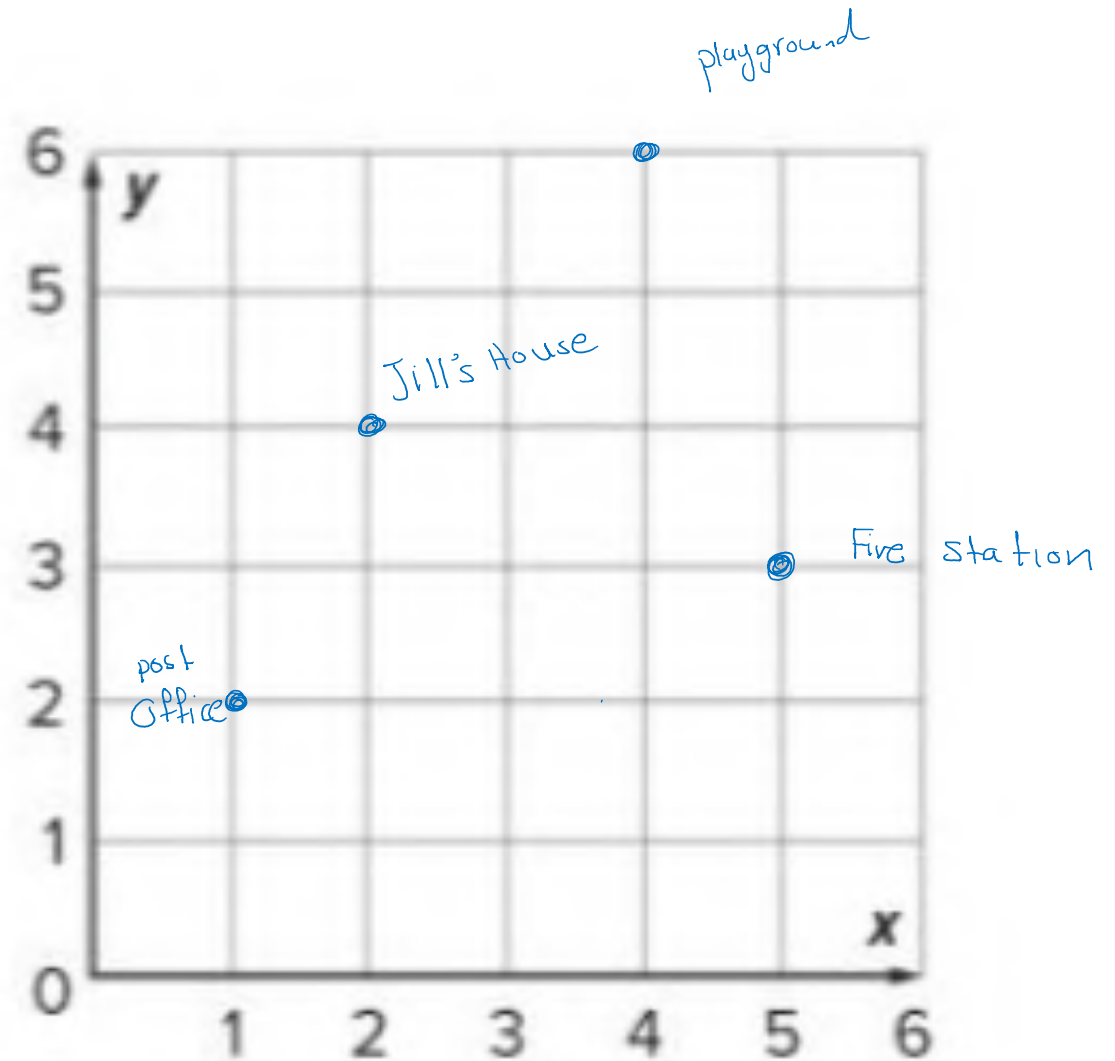
Place	Ordered Pair
Playground	(4, 6)
Post Office	(1, 2)
Fire Station	(5, 3)
Jill's House	(2, 4)

1. Playground

2. Post Office

3. Fire Station

4. Jill's House



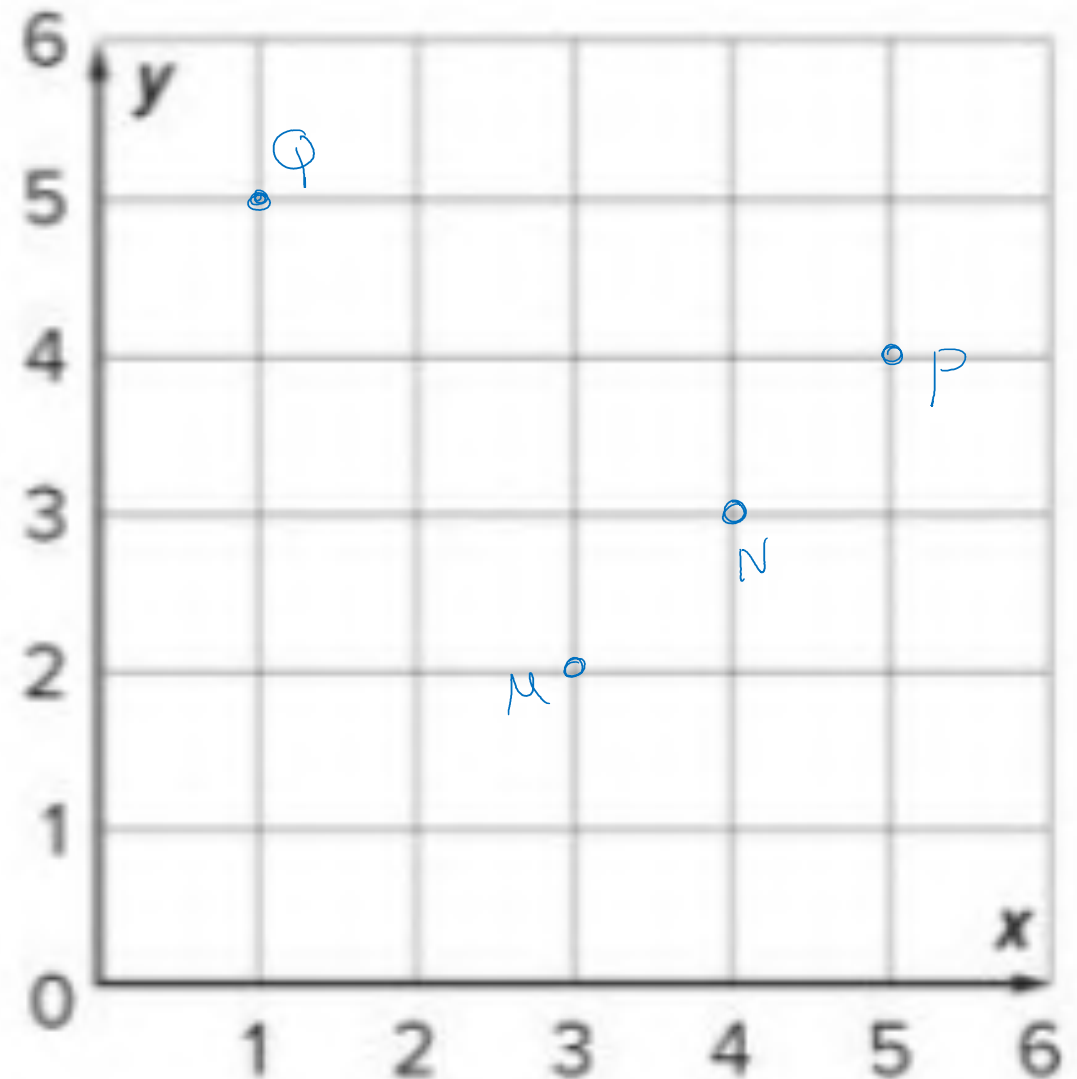
Plot and label the point for each ordered pair.

5.  $M(3, 2)$

6.  $N(4, 3)$

7.  $P(5, 4)$

8.  $Q(1, 5)$



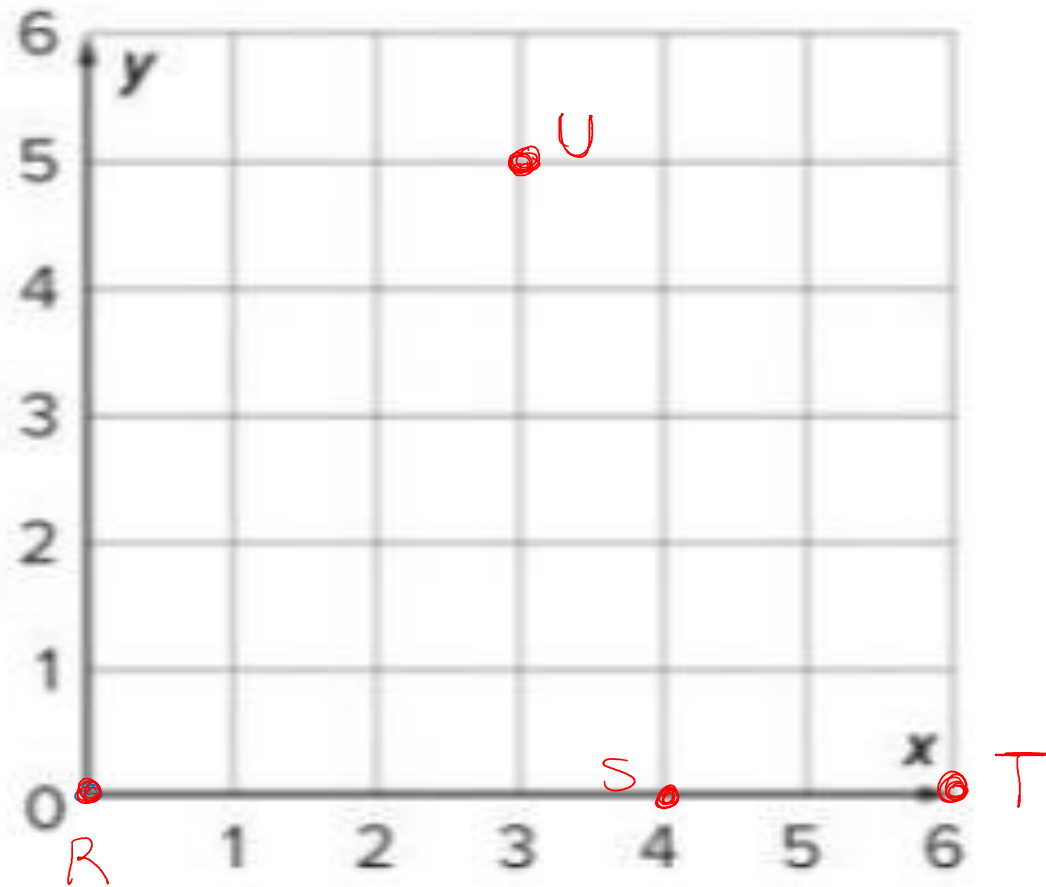
Plot and label the point for each ordered pair.

9.  $R(0, 0)$

10.  $S(4, 0)$

11.  $T(0, 6)$

12.  $U(3, 5)$



Plot and label the point for each place shown in the table.

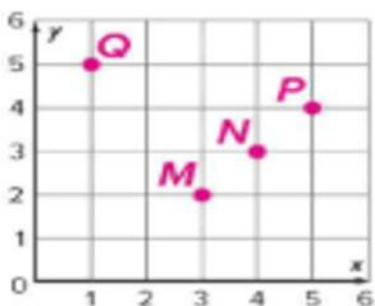
Place	Ordered Pair
Playground	(4, 6)
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1. Playground
2. Post Office
3. Fire Station
4. Jill's House



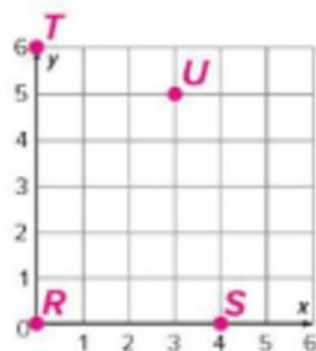
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Plot and label the point for each ordered pair.

9.  $R(0, 0)$
10.  $S(4, 0)$
11.  $T(0, 6)$
12.  $U(3, 5)$



**( )**

Parentheses

**P****X** or **÷**

Multiply

**M****÷**

Divide

**D****+** or **-**

Add

**A**

Subtract

**S**

What is the solution? Show your work.

5.  $3 + (7 \times 2) = \underline{\hspace{2cm}}$

$3 + 14$   
 $= \boxed{17}$

6.  $(3 + 7) \times 2 = \underline{\hspace{2cm}}$

$10 \times 2 = \boxed{20}$

**( )**

Parentheses

**P****X** or **÷**

Multiply

**M****÷**

Divide

**D****+** or **-**

Add

**A**

Subtract

**S**

7.  $(56 \div 8) - 3 + 2 \times 5 =$  \_\_\_\_\_

$7 - 3 + (2 \times 5)$

$(7 - 3) + 10$

$4 + 10$

$= \boxed{14}$

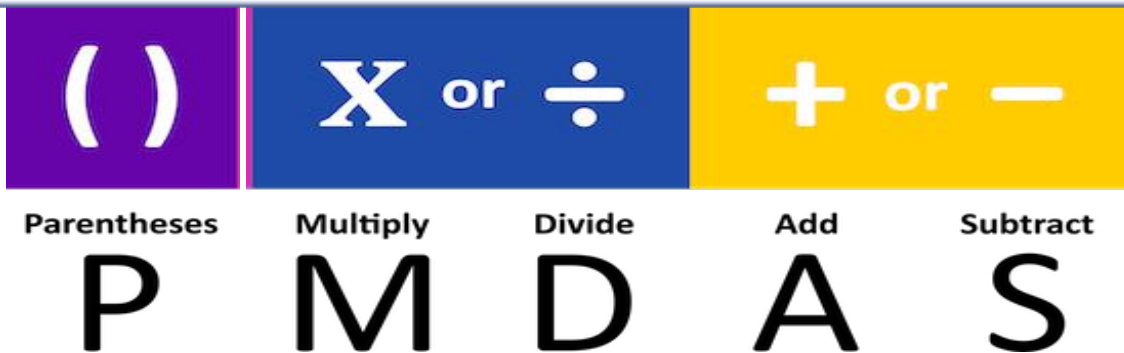
8.  $56 \div (8 - 3 + 2) \times 5 =$  \_\_\_\_\_

$56 \div 7 \times 5$

$8 \times 5$

$= \boxed{40}$

$$\begin{array}{r} \sqrt{33} \\ 8 \overline{) 269} \\ \underline{-24} \phantom{0} \\ 29 \\ \underline{-24} \\ 5 \end{array}$$



$$\begin{array}{r} 6.75 \\ 3.25 \\ \hline 10.00 \end{array}$$

9.

$$2\frac{3}{8} + \left(1\frac{1}{4} \times 6\frac{3}{4}\right) - \frac{1}{2} = \boxed{35\frac{5}{8}}$$

$$2\frac{3}{8} + \left(\frac{5}{4} \times \frac{27}{4}\right) - \frac{1}{2}$$

$$2\frac{3 \times 2}{8 \times 2} + \frac{135}{16} - \frac{1 \times 8}{2 \times 8}$$

$$2\frac{6}{16} + \frac{135}{16} - \frac{8}{16} \Rightarrow$$

$$2\frac{14}{16} - \frac{8}{16} =$$

$$2\frac{133}{16} = 2 + 8\frac{5}{16} = \boxed{10\frac{5}{16}}$$

10.

$$5.8 \times (6.75 + 3.25) \div 2 = \boxed{29}$$

$$5.8 \times 10 \div 2 = \boxed{29}$$

$$8\frac{5}{16}$$

$$\begin{array}{r} 29 \\ 2 \overline{) 58} \\ \underline{4} \phantom{0} \\ 18 \\ \underline{18} \\ 0 \end{array}$$

$$\begin{array}{r} 5 \overline{) 80} \\ 6 \phantom{0} \\ \hline 7 \phantom{0} \\ 8 \phantom{0} \\ \hline 9 \phantom{0} \end{array}$$

$$\begin{array}{r} 1 \overline{) 16} \\ 2 \phantom{0} \\ \hline 3 \phantom{0} \\ 4 \phantom{0} \end{array}$$



**24.** Fill in the blank. (Lesson 14-3)

( )

Parentheses

P

**X** or  $\div$

Multiply

M

**+** or **-**

Divide

D

**+** or **-**

Add

A

Subtract

S

What is the value of the expression?

$$\begin{array}{r}
 6 \times (8 - 3) + 14 \\
 \quad \quad \quad \downarrow \\
 6 \times 5 + 14 \\
 \quad \quad \downarrow \\
 30 + 14 \\
 = \boxed{44}
 \end{array}$$

**26.** Fill in the blank. (Lesson 14-3)

What is the value of the expression?

$$250 - (12 \times 5) - 10 \times 2$$

$$250 - 60 - 10 \times 2$$

$$250 - 60 - 20$$

$$190 - 20$$

$$= 170$$

<b>( )</b>	<b>X or ÷</b>		<b>+ or -</b>	
Parentheses ① <b>P</b>	Multiply ② <b>M</b>	Divide <b>D</b>	Add <b>A</b>	Subtract <b>S</b>

② ✓

③

④

24	A learning outcome from the SoW نتائج من الخطة الفصلية	Undisclosed غير معلن	Undisclosed غير معلن
25	A learning outcome from the SoW	Undisclosed غير معلن	Undisclosed غير معلن

Describe a relationship between corresponding terms in Patterns A and B.

1. <sup>الأولي</sup> Pattern A starts at 0 and adds 4 to each term.  
 Pattern B starts at 0 and adds 2 to each term.

A 2 times B

2. Pattern A starts at 0 and adds 3 to each term.  
 Pattern B starts at 0 and adds 9 to each term.

B 3 times A

3. Pattern A starts at 0 and adds 20 to each term.  
 Pattern B starts at 0 and adds 5 to each term.

A 4 times B

24	A learning outcome from the SoW نتائج من الخطة الفصلية	Undisclosed غير معلن	Undisclosed غير معلن
25	A learning outcome from the SoW نتائج من الخطة الفصلية	Undisclosed غير معلن	Undisclosed غير معلن

Use the table to answer Exercises 4–6.

4. Fill in the unknown terms in the table.

5. What is a **relationship** between the **corresponding** terms in Patterns A and B?  
 Pattern B is 4 times pattern A

6. If a term in Pattern A is 20, what will be its corresponding term in Pattern B?

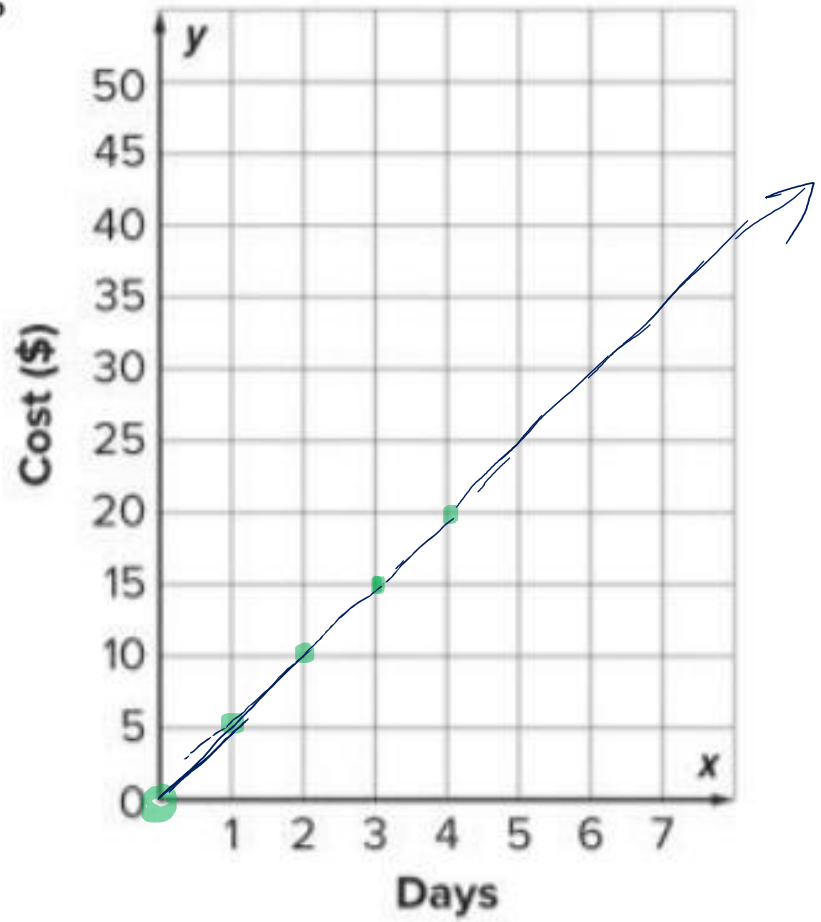
$$20 \times 4 = \boxed{80}$$

start

Pattern A <b>+ 2</b>	Pattern B <b>+ 8</b>
0	0
2 $\times 4$	8
4 $\times 4$	16
6 $\times 4$	24
8 $\times 4$	32
20 $\times 4$	80

1. The Scooters and Stuff Rental charges are shown in the table.  
Write the corresponding terms as ordered pairs  
and plot them on the coordinate plane.

Scooters and Stuff Rental		
Days	Cost (\$)	Ordered Pair
0	0	$(0, 0)$
1	5	$(1, 5)$
2	10	$(2, 10)$
3	15	$(3, 15)$
4	20	$(4, 20)$



2. What is the rule for the pattern in the Days column of the table?

Add 1

4. What is a relationship between the corresponding terms in the table?

The cost is 5 times the day

6. Write the ordered pair and plot the point on the coordinate plane for 8 days.

(x, y)  
(day, cost)  
(8, 40)

3. What is the rule for the pattern in the Cost (\$) column of the table?

Add 5

5. How much should it cost to rent a scooter for 8 days?

$$8 \times 5 = 40 \$$$

7. How much should it cost to rent a scooter for  $6\frac{1}{2}$  days?

$$\begin{array}{r} 32 \\ 2 \overline{) 65} \\ \underline{64} \\ 1 \end{array}$$

$$6\frac{1}{2} \times 5$$

$$\frac{13}{2} \times 5 = \frac{65}{2} = 32.5$$

Scooters and Stuff Rental		
Days	Cost (\$)	Ordered Pair
0	0	(0, 0)
1	5	(1, 5)
2	10	(2, 10)
3	15	(3, 15)
4	20	(4, 20)

$$\begin{array}{r} 8 \times 5 = 40 \\ \hline 6\frac{1}{2} \times 5 = 32.5 \end{array}$$