Input/Output Tables Worksheet

Algebra

Grades 4 to 5

Skill Questions

Name: ....

Date: ....

1 Find the rule for each sequence. Then fill in the missing terms.

__ , 10 , 16, 22, 28, ____

Answer

2 Find the rule for each sequence. Then fill in the missing terms.

___, $1\frac{1}{2}$, $2\frac{1}{4}$, 3, $3\frac{3}{4}$, ___

Answer

3 State the rule and find the missing values in the input/output table.

Rule: _____

Input	Output
3	9
5	15
7	

4 State the rule and find the missing values in the input/output table.

Rule: _____

Input	Output
1	6
2	12
	24

5 Find the unit conversion and complete the input/output table.

Unit conversion: _____

minutes	secons
1	60
3	180
5	

6 Find the unit conversion and complete the input/output table.

Unit conversion: _____

meter	centimeters
2	200
6	600
9	

7 What is the relationship between each pair of corresponding terms?

A	2	5	8	11	14
B	4	10	16	22	28

Answer

8 What is the relationship between each pair of corresponding terms?

A	35	30	25	20	15
B	7	6	5	4	3

Answer

9 Write an ordered pair for each pair of corresponding terms.

x	y	Ordered pair
1	3	(__ , __)
2	6	(__ , __)
3	9	(__ , __)

10 Complete the table below with the correct pattern.

x	y	Ordered pair
4	2	(__ , __)
8	4	(__ , __)
12	6	(__ , __)

Applied Questions

11   Look at the pattern of figures below. If the pattern continues, how many squares will make up the 6th figure?
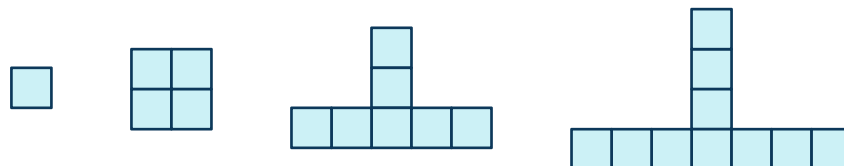
Answer

12   Joshua has 10 baseball cards. Each month, he adds 3 more cards to his collection. How many baseball cards will Joshua have after 5 months? Use an input/output table to prove your answer.
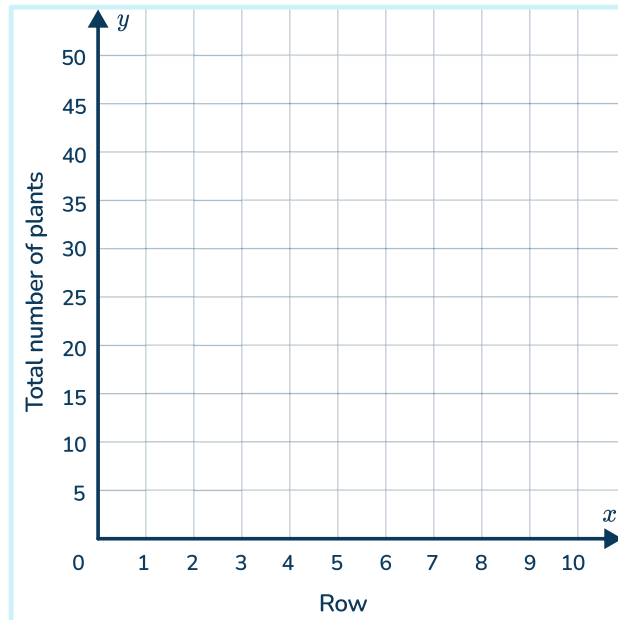
Answer

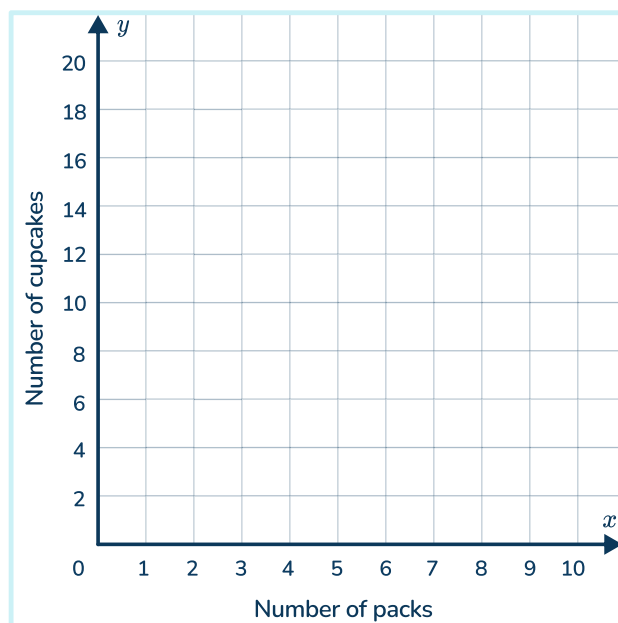13   Complete the input/output table below to show the relationship between quarts and pints.

Quarts	Pints
2	
	6
	12
10	

Hint: 1 quart = 2 pints

14 A farmer is planning to plant rows of crops in his field. Each row will have 5 plants. Create an input/output table showing the row number (input) and the total number of plants (output) for the first 5 rows and plot the points on the coordinate plane.
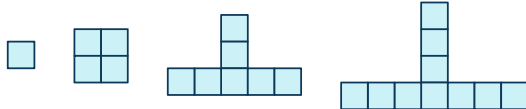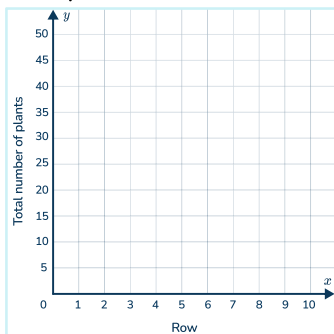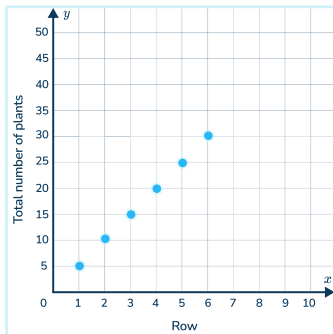
15 A bakery sells cupcakes in packs. There are 4 cupcakes in each pack. Create an input/output table showing the number of packs (input) and the number of cupcakes (output) for the first 5 packs and plot the points on the coordinate plane.

Answers

Question number	Question	Answers	Standard
1	Find the rule for each sequence. Then fill in the missing terms. __ , 10 , 16, 22, 28, ____	4, 32	4.OA.C.5
2	Find the rule for each sequence. Then fill in the missing terms. __, $1\frac{1}{2}$, $2\frac{1}{4}$, 3, $3\frac{3}{4}$, ___	$\frac{3}{4}$, $4\frac{1}{2}$	4.OA.C.5
3	State the rule and find the missing values in the input/output table. Rule: _____ Input | Output 3 | 9 5 | 15 7 |	Rule: multiply by 3 Missing value: 21	4.OA.C.5
4	State the rule and find the missing values in the input/output table. Rule: _____ Input | Output 1 | 6 2 | 12 | 24	Rule: multiply by 6 Missing value: 4	4.OA.C.5
5	Find the unit conversion and complete the input/output table. Unit conversion: _____ minutes | secons 1 | 60 3 | 180 5 |	Unit conversion: multiply by 60 Missing value: 300 seconds	4.MD.A.1
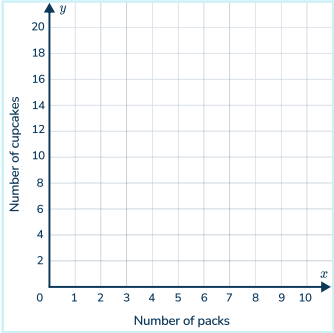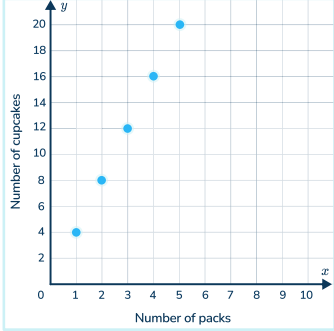
Input/Output Tables Worksheet | Grades 4 to 5 | Answers

Question number	Question	Answers	Standard
6	Find the unit conversion and complete the input/output table. Unit conversion: _____ <table><tr><td>meter</td><td>centimeters</td></tr><tr><td>2</td><td>200</td></tr><tr><td>6</td><td>600</td></tr><tr><td>9</td><td></td></tr></table>	Unit conversion: multiply by 100 Missing value: 900 cm	4.MD.A.1
7	What is the relationship between each pair of corresponding terms? <table><tr><td>A</td><td>2</td><td>5</td><td>8</td><td>11</td><td>14</td></tr><tr><td>B</td><td>4</td><td>10</td><td>16</td><td>22</td><td>28</td></tr></table>	Multiply any term in pattern A by 2 to get the corresponding term in pattern B.	5.OA.B.3
8	What is the relationship between each pair of corresponding terms? <table><tr><td>A</td><td>35</td><td>30</td><td>25</td><td>20</td><td>15</td></tr><tr><td>B</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td></tr></table>	Divide any term in pattern A by 5 to get the corresponding term in pattern B.	5.OA.B.3
9	Write an ordered pair for each pair of corresponding terms. <table><tr><td>x</td><td>y</td><td>Ordered pair</td></tr><tr><td>1</td><td>3</td><td>(__ , __)</td></tr><tr><td>2</td><td>6</td><td>(__ , __)</td></tr><tr><td>3</td><td>9</td><td>(__ , __)</td></tr></table>	(1,3) (2,6) (3,9)	5.OA.B.3
10	Complete the table below with the correct pattern. <table><tr><td>x</td><td>y</td><td>Ordered pair</td></tr><tr><td>4</td><td>2</td><td>(__ , __)</td></tr><tr><td>8</td><td>4</td><td>(__ , __)</td></tr><tr><td>12</td><td>6</td><td>(__ , __)</td></tr></table>	(4,2) (8,4) (12,6)	5.OA.B.3

Question number	Question	Answers	Standard
11	Look at the pattern of figures below. If the pattern continues, how many squares will make up the 6th figure?	Rule: add 3 squares The 6th figure would have 16 squares.	4.OA.C.5
12	Joshua has 10 baseball cards. Each month, he adds 3 more cards to his collection. How many baseball cards will Joshua have after 5 months? Use an input/output table to prove your answer.	25 baseball cards	4.OA.C.5
13	Complete the input/output table below to show the relationship between quarts and pints. 	Quarts	Pints
---	---
2	
	6
	12
10	| *Hint: 1 quart = 2 pints*	Quarts, pints 2 qt, 4 pt 3 qt, 6 pt 6 qt, 12 pt 10 qt, 20 pt	4.MD.A.1
14	A farmer is planning to plant rows of crops in his field. Each row will have 5 plants. Create an input/output table showing the row number (input) and the total number of plants (output) for the first 5 rows and plot the points on the coordinate plane.	Row, plants 1, 5 2, 10 3, 15 4, 20 5, 25	5.OA.B.3

Question number	Question	Answers	Standard
15	A bakery sells cupcakes in packs. There are 4 cupcakes in each pack. Create an input/output table showing the number of packs (input) and the number of cupcakes (output) for the first 5 packs and plot the points on the coordinate plane.	Packs, cupcakes 1, 4 2, 8 3, 12 4, 16 5, 20 	5.OA.B.3

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