



TEACHER GUIDE

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STUDENT HANDOUTS

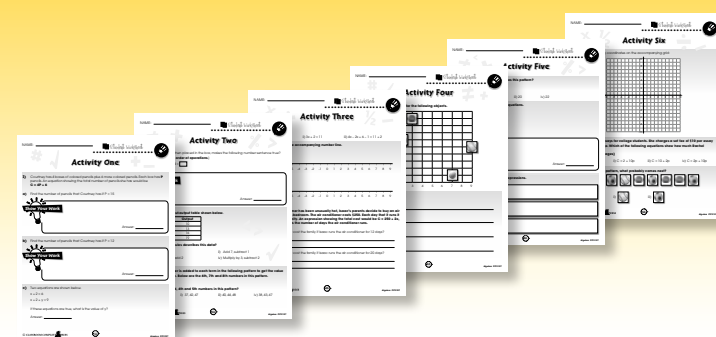
Algebra – Task Sheets

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STUDENT HANDOUTS

Algebra – Drill Sheets

- Exercises – Practice the Skills Learned

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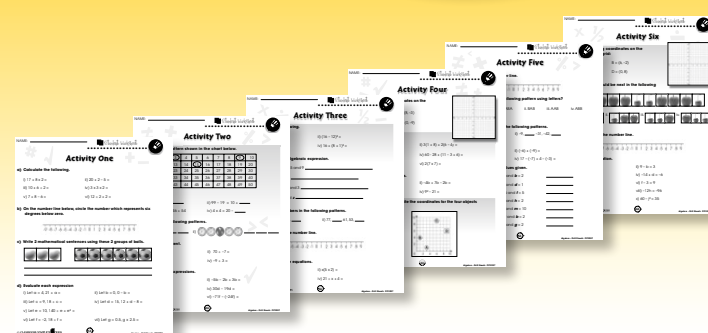
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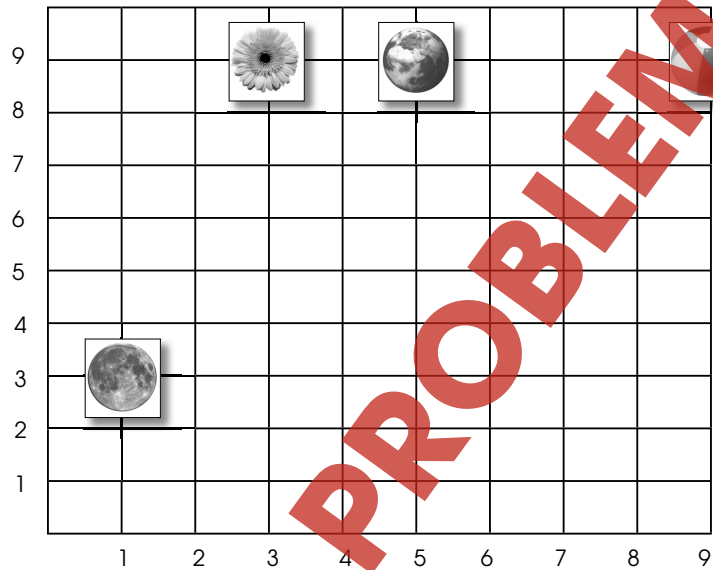
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Task Sheet 6

6a) From the following graph, give the coordinates for the four objects indicated.



Coordinates



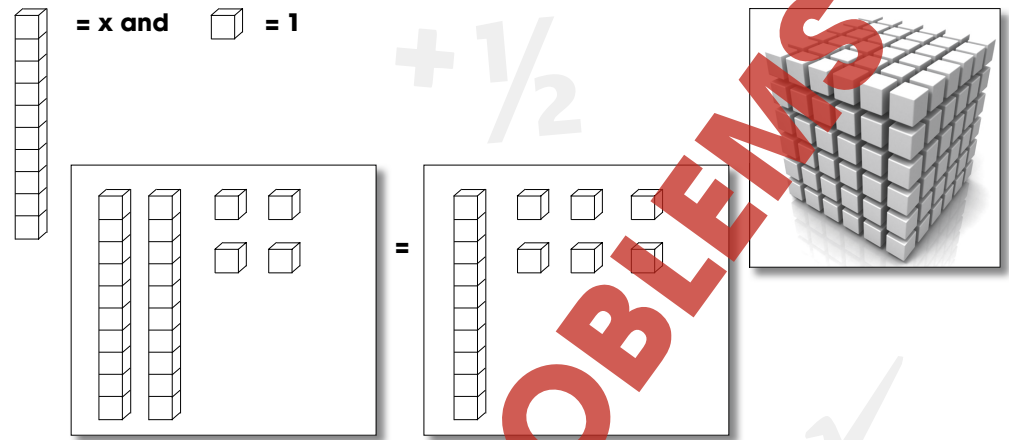








Task Sheet 13

13. $\text{rod} = x$ and $\text{cube} = 1$ This can be represented as $2x + 4 = x + 6$

a) Remove the same number of files from each side, making sure that you keep both sides in balance. What do you have left?

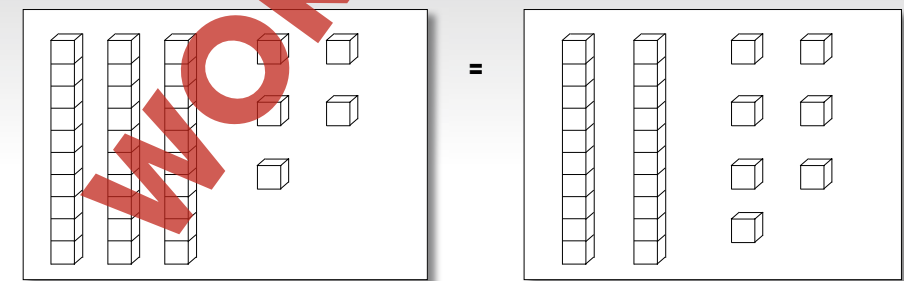
i) $2x = 1$

ii) $x = 2$

iii) $4 + x = 2x$

iv) $2 + 2x = 0$

b) How might the following be written as an equation?



i) $3x + 7 = 2x + 7$

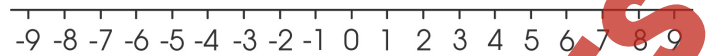
ii) $2x + 7 = 3x + 4$

iii) $3x + 4 = 2x - 7$

iv) $3x + 5 = 2x + 7$



6a) On the number line below, circle a profit of \$3.00.



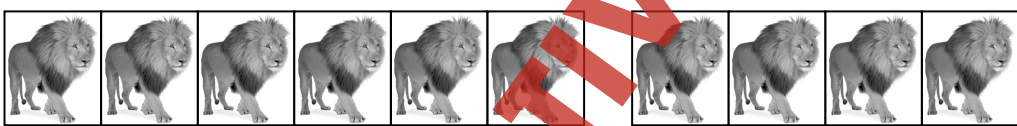
b) Rewrite using the associative property.

Ex: $x + (y + z) = (x + y) + z$

i) $(a + b) + c$

ii) $d(ef)$

c) Write 2 mathematical sentences using these 2 groups of lions.



d) Find each quotient.

i) $-10 \div 5 =$

ii) $6 \div -2 =$

iii) $75 \div -15 =$

iv) $-30 \div 5 =$

v) $22 \div 11 =$

vi) $19 \div 1 =$

e) Solve for a.

Ex: $(2 + a) - 5 = 17$

$a = 22 - 2$

i) $12 + (a + 3) = 15$

$a =$

$(2 + a) = 17 + 5$

$a = 20$

ii) $a - 10 = 14$

$a =$

iii) $(9 + a) + 8 = 21$

$a =$

iv) $3(6 \div a) = 3$

$a =$

v) $a + 12 \div 4 = 11$

$a =$

Reflection

Kelly and Jake spend Saturday morning selling popcorn at the fall fair. Using the equation $P = ab$, calculate the money they took in (P) if a is the price of the popcorn (\$2.50) and b is the number of customers (300).

Answer: _____



10a) Solve the following equations:

i) $2^2 =$

ii) $3^3 =$

iii) $6 + 6^2 =$

iv) $3^2 + 4^2 =$

v) $12 + (2^2 + 8) =$



b) What value, when placed in the box, would make the following equation true?

$7 \times \square - 10 = 45 + 8$

c) The following pattern increases by obeying this rule: multiply the previous term by 2 and add 3. 6, 15, 33, 69, ... What is the next term in the sequence? _____

d) Find each quotient.

i) $24 \div -6 =$

ii) $-15 \div 5 =$

iii) $-7 \div 2 =$

iv) $-14 \div 2 =$

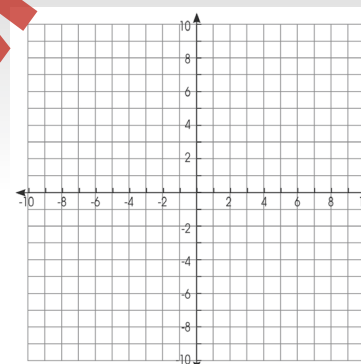
e) Plot the following coordinates on the accompanying grid:

A = (-8, 8)

B = (0, 0)

C = (6, -7)

D = (8, 9)



**Drill Sheet 1**

- a) Determine the value of \square in the following equations. Show your work.

i) $4 + \square = 13$	ii) $17 - \square = 9$	iii) $9 \times \square = 63$	iv) $\square \div 7 = 8$
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- b) Graph on the accompanying number line.
 $x = 7$



- c) What is the missing term in the increasing pattern below?

199, 213, 227, _____, 255

- d) Solve showing your work:

i) $3x - 2 = 7$	ii) $7x + 3 = 27 - 3$	iii) $4x = 32$
iv) $4x = 7 + 3 \times 3$	v) $x \div 4 = 24$	vi) $4 + 16 \div 4 = x$

**Review A**

- a) Determine the value of \square in the following equations. Show your work.

i) $\square + 5 = 11$	ii) $12 - \square = 6$	iii) $7 \times 3 = \square$	iv) $10 \cdot \square = 3 \times 2$
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- b) Graph on the accompanying number line.
 $x = 9$

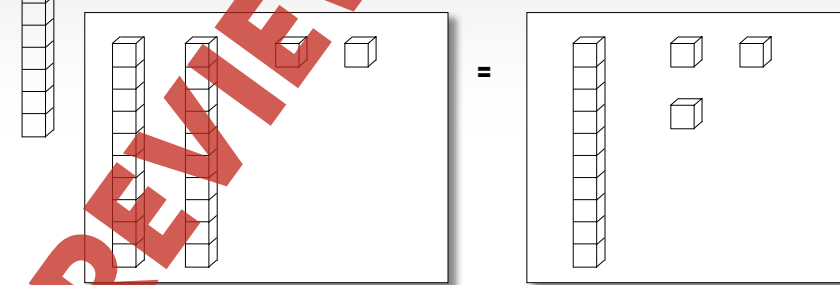


- c) What is the missing term in the increasing pattern below?

24, 26, _____, 30, 32 ...

- d) $\text{rod} = x$ and $\text{cube} = 1$.

How might the following be written as an equation?



- i) $2x - 2 = 1x + 2$ ii) $3x + 1 = 2x + 3$ iii) $2x + 2 = 1x + 3$ iv) $2x + 2 = 3x + 3$

**Review B**

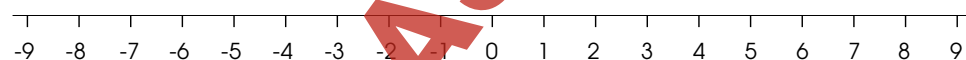
- a) Solve the following equations:

i) $21 - x = 12$	ii) $x \times 7 = 56$	iii) $x \div 12 = 5$
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- b) If $x = 8$, solve these equations.

i) $2x - 7 =$	ii) $4 \times x =$	iii) $3x + 1 =$
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- c) Graph on the accompanying number line. $-8 < x < 9$



- d) Jason's dad rents a table saw to help build a dog house for Rover. This table shows how much it costs to rent the table saw from Moe's Rentals. Choose which equation matches the table.

Days Rented (x)	0	1	2	3	4
Cost to Rent (C)	10	15	20	25	30

- i) $C = 5x + 10$ ii) $C = 10x + 5$ iii) $C = x + 15$ iv) $C = 15x + 10$

- e) Find the average for Julia's bowling scores: 156, 116, 212, 96

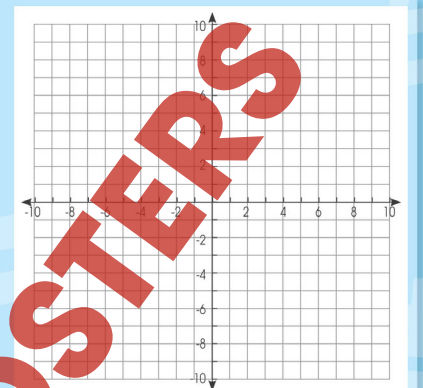
Show Your Work

Answer: _____

Plotting, Equations and Input-Output

- a) Plot the following coordinates on the accompanying grid:

A = (____, ____)
B = (____, ____)
C = (____, ____)
D = (____, ____)



- b) Solve the following

i) $\square \times \square = \square$ ii) $\square + \square = \square$ iii) $\square - \square = \square$

- c) Examine the input-output table shown below.

Input	Output	Which rule describes the data?

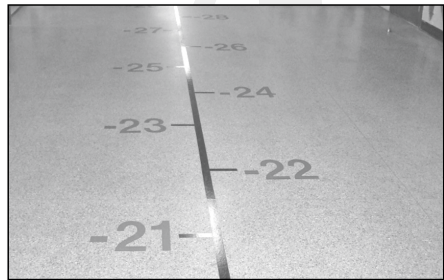
Answer: _____

NAME: _____

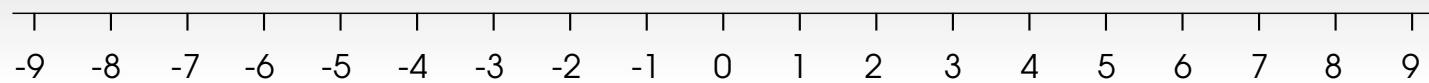


Task Sheet 3

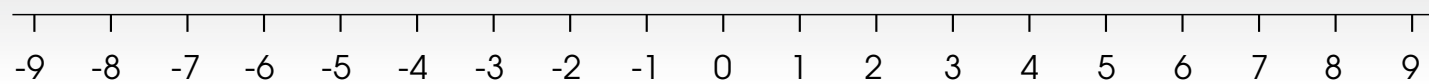
3) Graph each solution on the accompanying number line.



a) $x = -4$



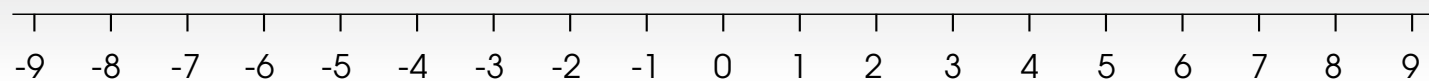
b) $x < 1$



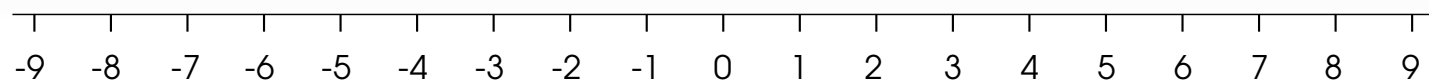
c) $x = 2$ and $y = -7$



d) $x \geq -6$



e) On the graph below, indicate the solution to x .
 $x + 2 = 6$



11

3.

a) -4 would be indicated

b) The numbers from 0 to -9 would be indicated

c) Label x at 2 and y at -7

d) Label all numbers from -6 to 9

e) Label 4

11

4.

a) 257

b) 80

c) i) 647

d) Add 2 to each number

e) Add 3 to each number

f) Add 3, add 5, add 7, add 9, etc.

12

5.

a) $.75 + .80 = \$1.55$

b) $15 \times .75 = \$11.25$

c) $12 \times .80 = \$9.60$

d) $14(.75) + 8(.80) = \$10.50 + 6.40 = \16.90

13

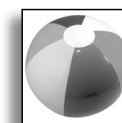
6.



3,9



5,9



9,9



1,3

14

7.

a) $x = 8$

b) $x = 6$

c) $x = 6$

d) iii) Step 3: should read $x = 18 / 2$ so $x = 9$

e) ii) 6

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EASY MARKING ANSWER KEY