# Process Standards Rubric 

Algebra



Task Sheet 13
13.


This can be represented as $2 x+4=x+6$
a) Remove the same number of tiles from each side, making sure that you keep both sides in balance. What do you have left?
i) $2 x=1$

iii) $4+x=2 x$
iv) $2+2 x=0$
b) How might the following be written as an equation?

i) $3 x+7=2 x+7$
ii) $2 x+7=3 x+4$
iii) $3 x+4=2 x-7$
iv) $3 x+5=2 x+7$
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Task Sheet 14
14.

a) If the pattern in Blocks 1, 2, and $\mathbf{3}$ continue, how many rectangles would it take to make the 5th Block?

Answer:
b) How many rectangles would it take to make the 10th Block?

Answer:
c) I have . 42 c in my pocket I have only dimes and pennies. What coins might I have? Complete the chartbelow showing the possibilities.


The website http://www.coolmath.com, has a very helpful Algebra section. It has a lot of great tutorials and fun activities - even a graphing calculator that students can experiment with. Play around on the site, and try your hand at some algebraic problems.

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Algebra CCP3107-5

NAME:


## Task Sheet 15

15a) This table shows how much it costs to rent a DVD from Paul's Movies and Games. Choose which equation matches the table.

| Days Rented ( $\mathbf{x}$ ) |
| :--- |
| Cost to Rent (C) | Cost to Rent (C)


| 6 | 8 | 10 | 12 |
| :--- | :--- | :--- | :--- |

$\begin{array}{lll}\text { i) } C=2 x+4 & \text { ii) } C=x+2 & \text { iii) } C=0 x+2\end{array}$
b) Maria rented a movie from Paul's Movies and Games. Her bill came to $\mathbf{\$ 8}$. Plot this amount on the line below.



Drill Sheet
NAME:

## Drill Sheet 1

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

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

199, 213, 227, , 255
d) Solve showing your work

| i) $3 x-2=7$ | iii) $7 x+3=27-3$ | iii) 42 |
| :--- | :--- | :--- |
| iv) $4 x=7+3 \times 3$ | v) $x \div 4=24$ | vi) $4+16 \div 4=x$ |

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Algebra CCP3107-5

NAME: $\qquad$

## Drill Sheet 2

a) A pattern is shown below. Each term decreases by the same amount.

80, 71, 62, 53 ..
What is the seventh term in this pattern?
b) Solve the following equations if $\mathbf{x}=6$. Show your work

c) What is the average of the following marks out of 100? 76, 82, 91, 66, 100

d) Graph on the accompanying number line.
$-2<x<4$
$\begin{array}{lllllllllllllllllll}-9 & -8 & -7 & -6 & -5 & -4 & -3 & -2 & -1 & 0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9\end{array}$
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NAME:


Graphing and Equations

## Review B

a) Solve the following equations:

b) If $\mathbf{x}=\boldsymbol{8}$, solve these equations.

c) Graph on the accompanying number line $-8<x<9$

d) Jason's dad rents a table salw 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) $C=5 x+10$
ii) $C=10 x+5$
iii) $C=x+15$
iv) $C=15 x+10$
e) Find the average for Julia's bowling scores: 156, 116, 212, 96


## Review A

a) Determine the value of
in the following equations. Show your work.
i) $\square+5=11$

iii) $7 \times 3=\square$
iv) $10-\square=3 \times 2$
b) Graph on the accompanying number line. $\mathrm{x}=9$

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

24, 26,
_ 30, 32
d)

$\begin{array}{lll}\text { i) } 2 x-2=1 x+2 & \text { ii) } 3 x+1=2 x+3 & \text { iii) } 2 x+2=1 x+3\end{array} \quad$ iv) $2 x+2=3 x+3$
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(1)

Algebra CCP3107-5
a) Graph each on the accompanying number line.
b) Round each of the following numbers to the nearest hundred.

c) How might the following be writien as an equation?

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(16)

NAME:


## Task Sheet 15

15a) This table shows how much it costs to rent a DVD from Paul's Movies and Games. Choose which equation matches the table.

| Days Rented (x) | 0 | 1 | 2 | 3 | 4 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Cost to Rent (C) | 4 | 6 | 8 | 10 | 12 |

$$
\begin{array}{lll}
\text { i) } C=2 x+4 & \text { ii) } C=x+2 & \text { iii) } C=0 x+2
\end{array} \text { iv) } C=x+4
$$


b) Maria rented a movie from Paul's Movies and Games. Her bill came to \$8. Plot this amount on the line below.

c) Solve the following equations:
i) $x+17=72$
ii) $x-43=12$
iii) $99-x=40$
d) What is the solution to this equation?
$4 x-6=2 x+30$

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## Task Sheet 13

13. 



This can be represented as $2 \mathrm{x} \boldsymbol{+ 4 = x + 6}$
a) Remove the same number of tiles from each side, making sure that you keep both sides in balance. What do you have left?
i) $2 x=1$
ii) $x=2$
iii) $4+x=2 x$
iv) $2+2 x=0$
b) How might the following be written as an equation?

i) $3 x+7=2 x+7$
ii) $2 x+7=3 x+4$
iii) $3 x+4=2 x-7$
iv) $3 x+5=2 x+7$

## Review A

a) Determine the value of $\square$ in the following equations. Show your work.
i) $\square+5=11$
ii) 12 - $\square$
iii) $7 \times 3=$ $\square$
iv) $10-\square=3 \times 2$
b) Graph on the accompanying number line.

$$
x=9
$$

|  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

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

24, 26, $\qquad$ 30, $32 \ldots$
d) $\square=x$ and $\square=1$.

How might the following be written as an equation?

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

## Graphing and Equations .....................

a) Graph each on the accompanying number line.

b) Round each of the following numbers to the nearest hundred.

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


