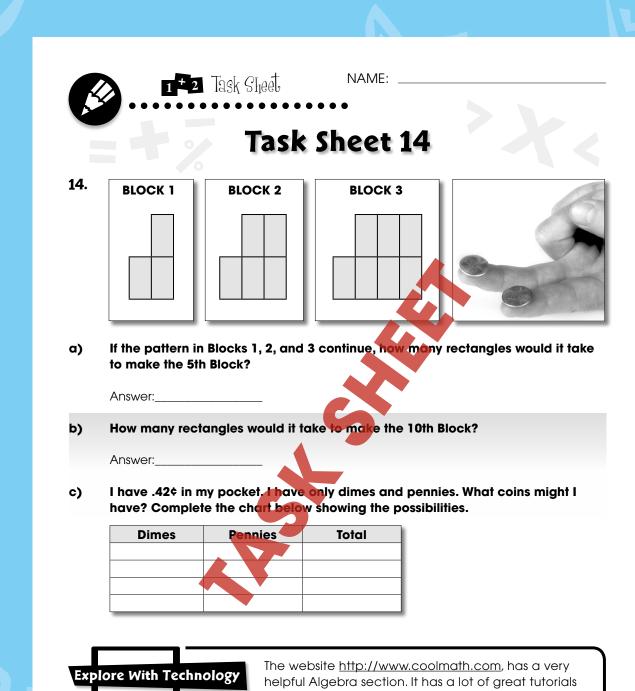
Process Standards Rubric

Algebra

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Expectations Instructional programs from pre-kindergarten through grade 12 should	 build new mathematical knowledge through problem solving; solve problems that arise in mathematics and in other contexts; apply and adapt a variety of appropriate strategies to solve problems; monitor and reflect on the process of mathematical problem solving. 	 recognize reasoning and proof as fundamental aspects of mathematics; make and investigate mathematical conjectures; develop and evaluate mathematical arguments and proofs; select and use various types of reasoning and methods of proof. 	 organize and consolidate their mathematical thinking through communication; communicate their mathematical thinking coherently and clearly to peers, teachers, and others; analyze and evaluate the mathematical thinking and strategies of others; use the language of mathematics to express mathematical ideas precisely. 	 recognize and use connections among mathematical ideas; understand how mathematical ideas interconnect and build on one another to produce a coherent whole; recognize and apply mathematics in contexts outside of mathematics. 	 create and use representations to organize, record, and communicate mathematical ideas; select, apply, and translate among mathematical representations to solve problems; use representations to model and interpret physical, social, and mathematical phenomena.
	GOAL 1: Problem Solving	GOAL 2: Reasoning & Proof	GOAL 3: noiteainnmmoD	GOAL 4: Connections	GOAL 5: Representation



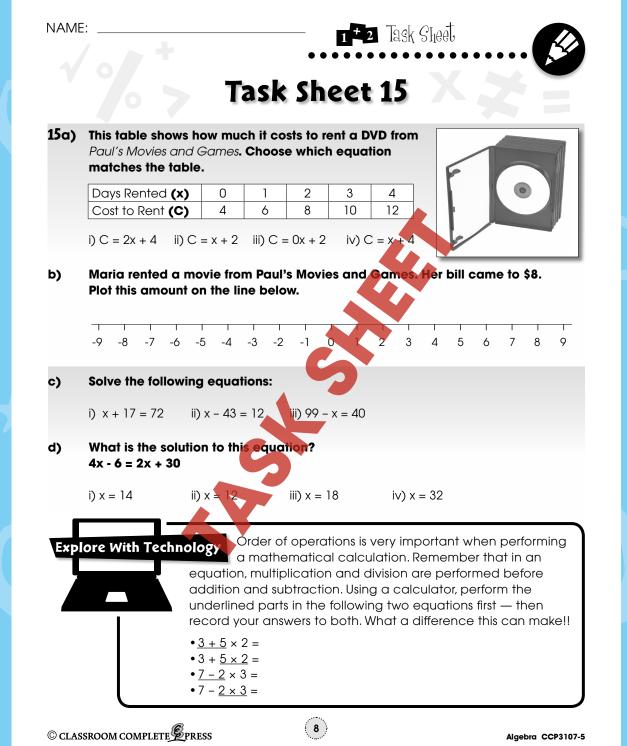
and fun activities – even a graphing calculator that students can experiment with. Play around on the site,

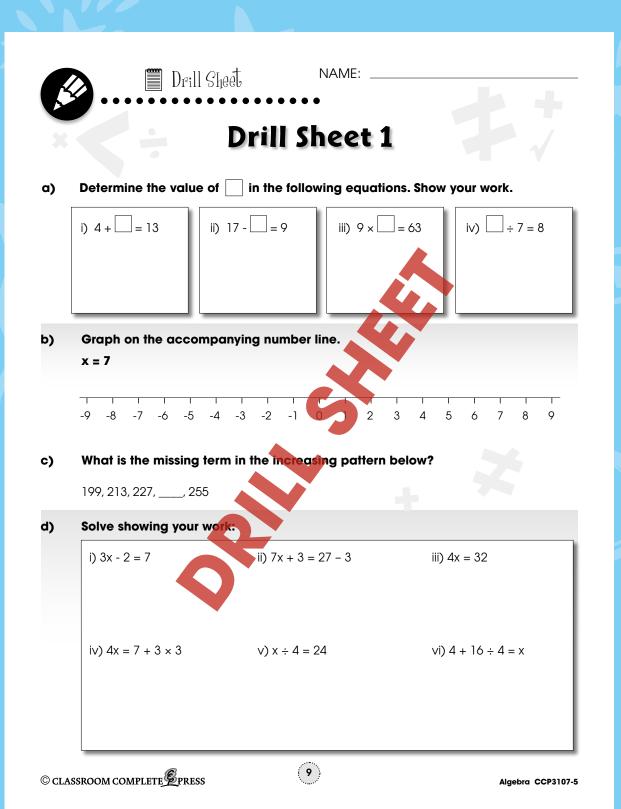
Algebra CCP3107-5

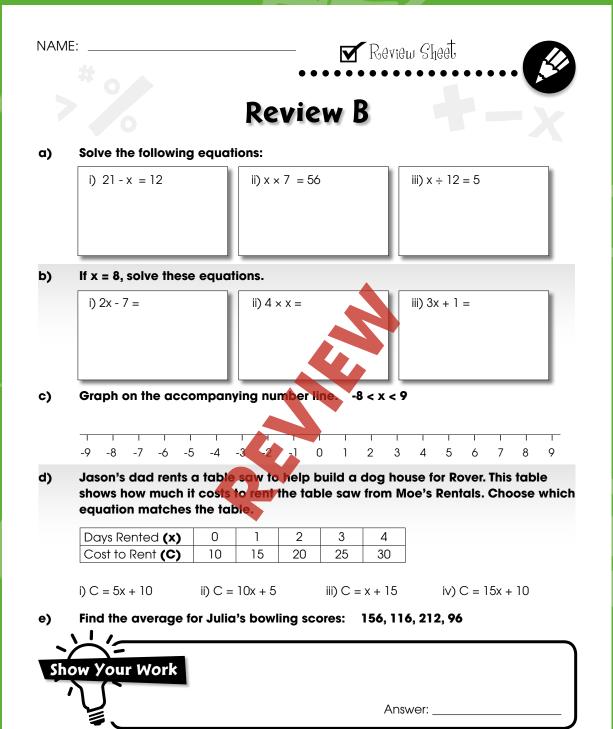
and try your hand at some algebraic problems.

7

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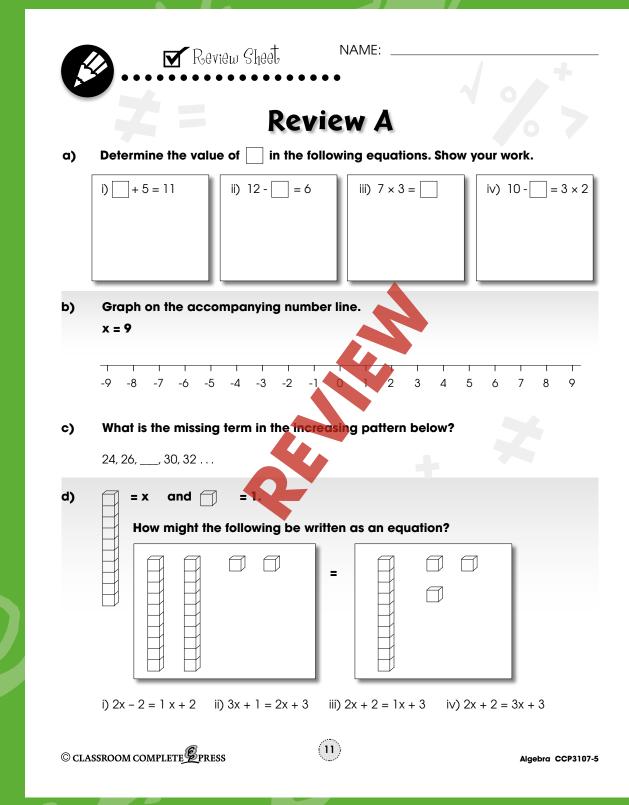


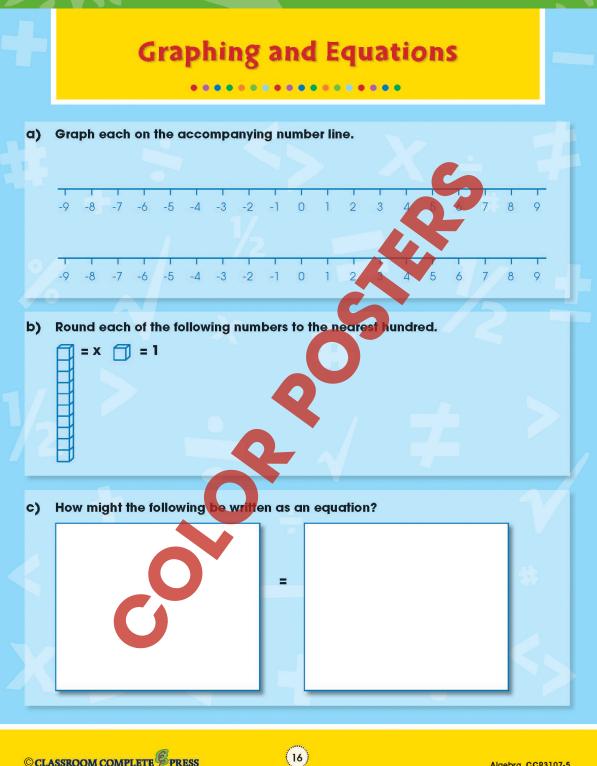


12

Algebra CCP3107-5

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NAME:



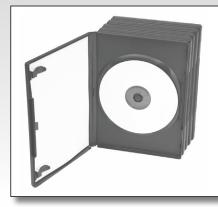


Task Sheet 15

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

i) C = 2x + 4 ii) C = x + 2 iii) C = 0x + 2 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.

 -9
 -8
 -7
 -6
 -5
 -4
 -3
 -2
 -1
 0
 1
 2
 3
 4
 5
 6
 7
 8
 9

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? 4x - 6 = 2x + 30

= (i) x = 14 (ii) x = 12 (iii) x = 18 (iv) x = 32

Explore With Technology

Order of operations is very important when performing a mathematical calculation. Remember that in an equation, multiplication and division are performed before addition and subtraction. Using a calculator, perform the underlined parts in the following two equations first — then record your answers to both. What a difference this can make!!

- $\bullet 3 + 5 \times 2 =$
- 3 + 5×2 =
- $7 2 \times 3 =$
- 7 2×3 =

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Algebra CCP3107-5

15.

a) i) C = 2x + 4

b) Label the number 8 on the line.

- **c)** i) x + 17 = 72 x = 55
- ii) x 43 = 12x = 55
- iii) 99 x = 40x = 59

G AN SWER KEY



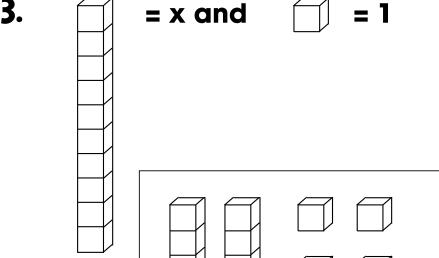


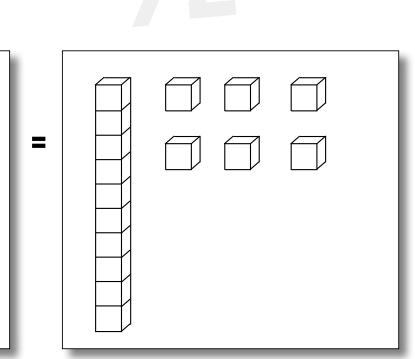


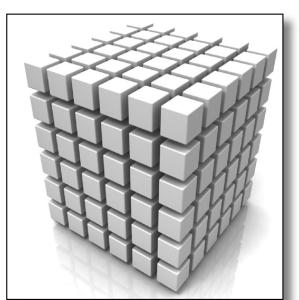


Task Sheet 13

13.







This can be represented as 2x + 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?

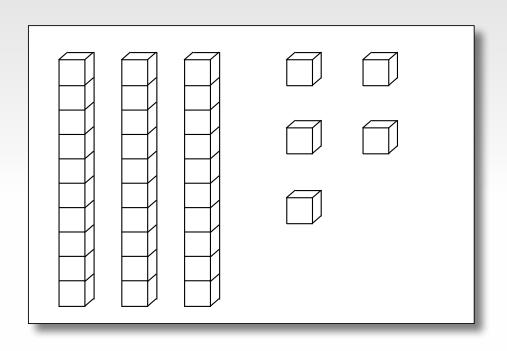
i)
$$2x = 1$$

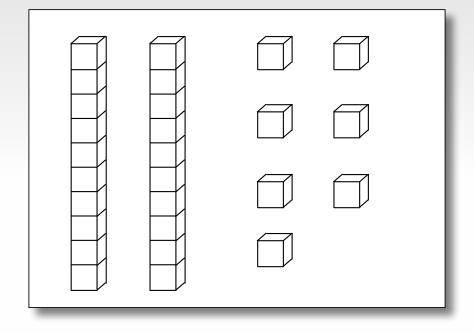
ii)
$$x = 2$$

iii)
$$4 + x = 2x$$

i)
$$2x = 1$$
 ii) $x = 2$ iii) $4 + x = 2x$ iv) $2 + 2x = 0$

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





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

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

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

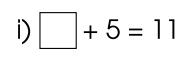
iv)
$$3x + 5 = 2x + 7$$



NAME: _____

Review A

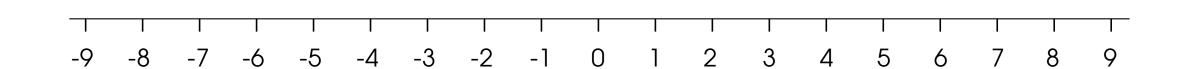
a) Determine the value of in the following equations. Show your work.



iv)
$$10 - \boxed{} = 3 \times 2$$

b) Graph on the accompanying number line.

x = **9**



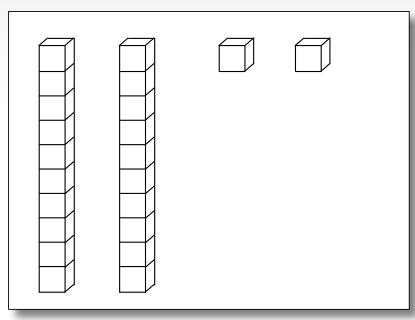
c) What is the missing term in the increasing pattern below?

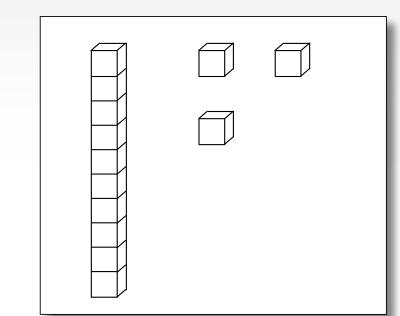
24, 26, ____, 30, 32 . . .

d) =

$$= x$$
 and $= 1.$

How might the following be written as an equation?





i)
$$2x - 2 = 1 x + 2$$

ii)
$$3x + 1 = 2x + 3$$

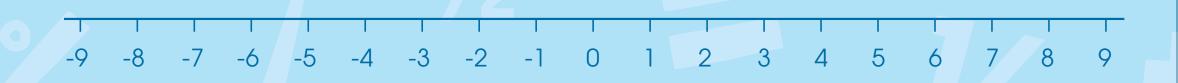
iii)
$$2x + 2 = 1x + 3$$

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

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?

