NAME:

Task Sheet 7

2 Task Sheet

7) Joyce decides that she would like a deck built at the back door of her house. She gets quotes from two construction companies:

Company	Initial Cost	Daily Cost
Joe's Decks and Landscaping	\$2500	\$150
King Street Deck Company	\$3250	\$125



Joyce uses an algebraic formula to compare the two quotes. C represents the total cost, and \mathbf{x} represents the number of days it takes to finish the job.

• C = 2500 + 150x• C = 3250 + 125x

Complete the following charts and compare the quotes of these two companies. Remember to show your work.

a) 5 days Joe's Decks and Landscaping i) Answer: King Street Deck Company ii) Answer: b) 8 days Joe's Decks and Landscaping i) Answer: ii) King Street Deck Company Answer: 15 © CLASSROOM COMPLETE PRESS



4a) Plot the following equation on the grid: y = 2x + 1Draw a straight line through the coordinates. First - complete the chart below.

Ex: y = 2(-4) + 1 = -7

Х	-4	-3	-2	-1	0	1	2
y = 2x + 1	-7						

b) Complete the following patterns:

i) 17, 23, 29, ____, ____.

ii) -26, -17, -8, 1, ____, ____.

iii) 42, 38, 34, ____, ____,

iv) -12, 2, 16, ____, ____

c) Solve the following.

i) If a + 6 = 13a + b + 9 = 21, $a = ___$ and $b = ___$ and ii) If c + d = 10 and c + d + e = 16 e =_____ 4 + f + g = 12 $f = __$ and iii) f 4 + f = 8g = ____ and

d) Write each as a verbal expression. Ex: a x 10 = A number times ten.

i) y ÷ 2 =	ii) b + 8 =
iii) s ³ =	iv) c - 14 =

e) Find each Quotient. Ex: $9 \div -3 = -3$

- i) $12 \div -4 =$ ii) $-30 \div -3 =$ iii) $75 \div -15 =$ iv) $-56 \div 8 =$
- f) Simplify each expression using the Distributive Property. Ex: 6(2x + 5) = 12x + 30
 - ii) 3(2 + 7y)i) -5(x + 7)iv) (-2 - 4x) x -7 iii) $(6x + 8) \times 4$

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