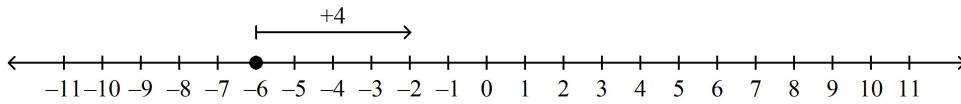


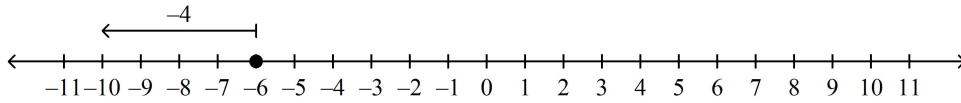
9. Which number line model can you use to simplify $-6 + 4$?

a.



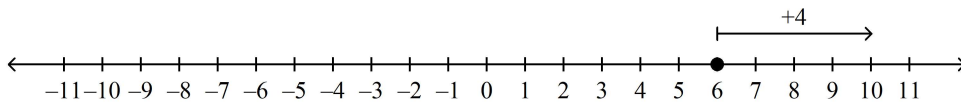
$$-6 + 4 = -2$$

b.



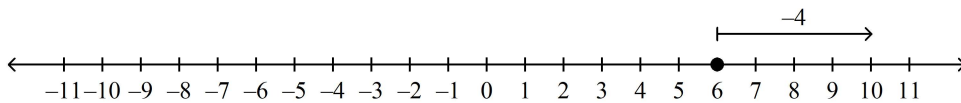
$$-6 + 4 = -10$$

c.



$$-6 + 4 = 10$$

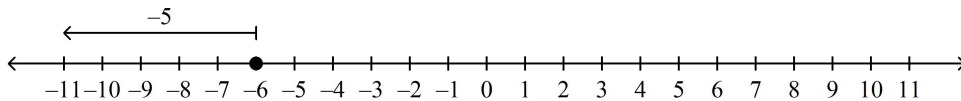
d.



$$-6 + 4 = 10$$

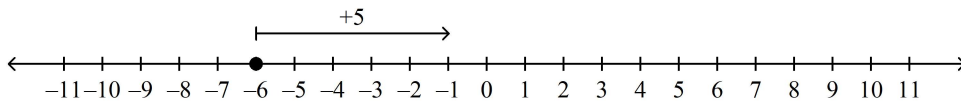
10. Which number line model can you use to simplify $-6 + (-5)$?

a.



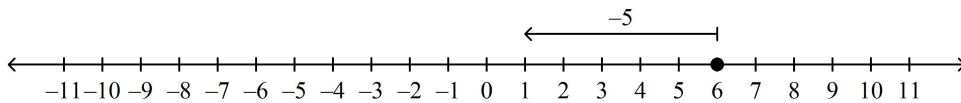
$$-6 + (-5) = -11$$

b.



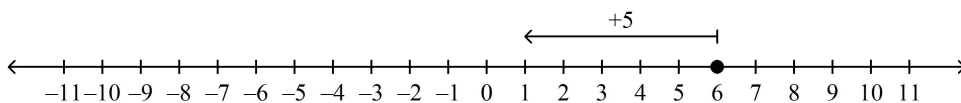
$$-6 + (-5) = -1$$

c.



$$-6 + (-5) = 1$$

d.

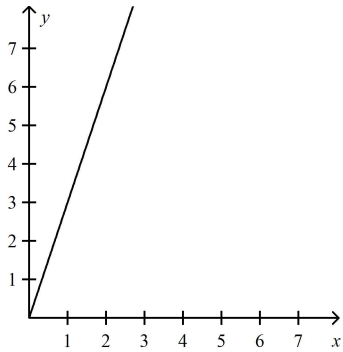


$$-6 + (-5) = 1$$

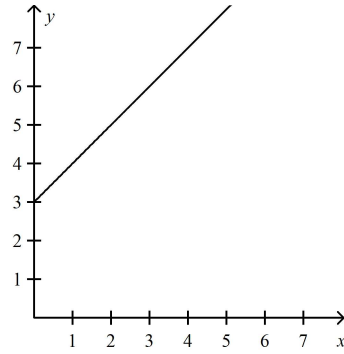
Name: _____

ID: A

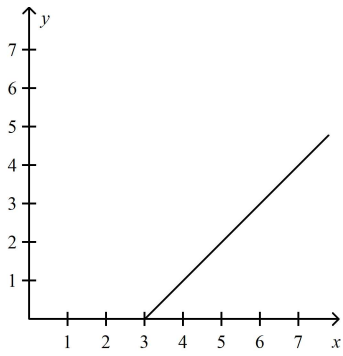
20. Mike and his best friend Dan have the same birthday, but Mike is 3 years older than Dan. Let the variable x represent Mike's age and y represent Dan's age. Which graph models the relationship between Dan's age and Mike's age?



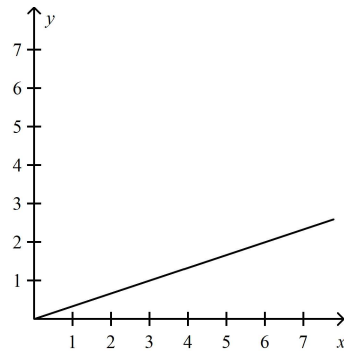
a.



c.



b.



d.

chapter 1 test

Answer Section

1. ANS: A PTS: 1 DIF: L3 REF: 1-1 Variables and Expressions
OBJ: 1-1.1 To write algebraic expressions NAT: CC A.SSE.1.a| A.1.a| A.3.b
STA: NC 1.02 TOP: 1-1 Problem 5 Writing a Rule to Describe a Pattern
KEY: algebraic expression
2. ANS: D PTS: 1 DIF: L2
REF: 1-2 Order of Operations and Evaluating Expressions
OBJ: 1-2.1 To simplify expressions involving exponents NAT: CC A.SSE.1.a| N.3.a| N.5.e
STA: NC 1.02 TOP: 1-2 Problem 1 Simplifying Powers
KEY: power | exponent | base | simplify | evaluate
3. ANS: B PTS: 1 DIF: L3
REF: 1-2 Order of Operations and Evaluating Expressions
OBJ: 1-2.1 To simplify expressions involving exponents NAT: CC A.SSE.1.a| N.3.a| N.5.e
STA: NC 1.02 TOP: 1-2 Problem 1 Simplifying Powers
KEY: power | exponent | base | simplify | evaluate
4. ANS: A PTS: 1 DIF: L4
REF: 1-2 Order of Operations and Evaluating Expressions
OBJ: 1-2.2 To use the order of operations to evaluate expressions
NAT: CC A.SSE.1.a| N.3.a| N.5.e STA: NC 1.02
TOP: 1-2 Problem 4 Evaluating a Real-World Expression KEY: evaluate
5. ANS: A PTS: 1 DIF: L3 REF: 1-4 Properties of Real Numbers
OBJ: 1-4.1 To identify and use properties of real numbers
NAT: CC N.RN.3| N.1.d| N.3.d| N.5.f| N.6.a| A.3.d
TOP: 1-4 Problem 3 Writing Equivalent Expressions KEY: equivalent expressions
6. ANS: D PTS: 1 DIF: L3 REF: 1-4 Properties of Real Numbers
OBJ: 1-4.1 To identify and use properties of real numbers
NAT: CC N.RN.3| N.1.d| N.3.d| N.5.f| N.6.a| A.3.d
TOP: 1-4 Problem 3 Writing Equivalent Expressions KEY: equivalent expressions
7. ANS: A PTS: 1 DIF: L4 REF: 1-4 Properties of Real Numbers
OBJ: 1-4.1 To identify and use properties of real numbers
NAT: CC N.RN.3| N.1.d| N.3.d| N.5.f| N.6.a| A.3.d
TOP: 1-4 Problem 4 Using Deductive Reasoning and Counterexamples
KEY: deductive reasoning | counterexample
8. ANS: D PTS: 1 DIF: L3
REF: 1-5 Adding and Subtracting Real Numbers
OBJ: 1-5.1 To find sums and differences of real numbers
NAT: CC N.RN.3| N.1.d| N.3.b| N.3.c| N.3.d| A.3.c
TOP: 1-5 Problem 1 Using Number Line Models KEY: opposites | additive inverses
9. ANS: A PTS: 1 DIF: L3
REF: 1-5 Adding and Subtracting Real Numbers
OBJ: 1-5.1 To find sums and differences of real numbers
NAT: CC N.RN.3| N.1.d| N.3.b| N.3.c| N.3.d| A.3.c
TOP: 1-5 Problem 1 Using Number Line Models KEY: opposites | additive inverses

10. ANS: A PTS: 1 DIF: L3
REF: 1-5 Adding and Subtracting Real Numbers
OBJ: 1-5.1 To find sums and differences of real numbers
NAT: CC N.RN.3| N.1.d| N.3.b| N.3.c| N.3.d| A.3.c
TOP: 1-5 Problem 1 Using Number Line Models KEY: additive inverses | opposites
11. ANS: A PTS: 1 DIF: L4
REF: 1-6 Multiplying and Dividing Real Numbers
OBJ: 1-6.1 To find products and quotients of real numbers
NAT: CC N.RN.3| N.1.d| N.3.b| N.3.c| N.3.d| A.3.c TOP: 1-6 Problem 4 Dividing Fractions
KEY: multiplicative inverse | reciprocal
12. ANS: A PTS: 1 DIF: L3 REF: 1-8 An Introduction to Equations
OBJ: 1-8.1 To solve equations using tables and mental math NAT: CC A.CED.1| N.2.b| A.3.b
STA: NC 4.01a TOP: 1-8 Problem 2 Identifying Solutions of an Equation
KEY: solution of an equation
13. ANS: D PTS: 1 DIF: L3 REF: 1-8 An Introduction to Equations
OBJ: 1-8.1 To solve equations using tables and mental math NAT: CC A.CED.1| N.2.b| A.3.b
STA: NC 4.01a TOP: 1-8 Problem 3 Writing an Equation
KEY: equation | solution of an equation
14. ANS: D PTS: 1 DIF: L4 REF: 1-8 An Introduction to Equations
OBJ: 1-8.1 To solve equations using tables and mental math NAT: CC A.CED.1| N.2.b| A.3.b
STA: NC 4.01a TOP: 1-8 Problem 3 Writing an Equation
KEY: equation | solution of an equation
15. ANS: A PTS: 1 DIF: L4 REF: 1-8 An Introduction to Equations
OBJ: 1-8.1 To solve equations using tables and mental math NAT: CC A.CED.1| N.2.b| A.3.b
STA: NC 4.01a TOP: 1-8 Problem 3 Writing an Equation
KEY: equation | solution of an equation
16. ANS: B PTS: 1 DIF: L3 REF: 1-9 Patterns, Equations, and Graphs
OBJ: 1-9.1 To use tables, equations, and graphs to describe relationships
NAT: CC A.CED.2| CC A.REI.10| A.1.a
TOP: 1-9 Problem 1 Identifying Solutions of a Two-Variable Equation
KEY: solution of an equation
17. ANS: D PTS: 1 DIF: L3 REF: 1-9 Patterns, Equations, and Graphs
OBJ: 1-9.1 To use tables, equations, and graphs to describe relationships
NAT: CC A.CED.2| CC A.REI.10| A.1.a
TOP: 1-9 Problem 1 Identifying Solutions of a Two-Variable Equation
KEY: solution of an equation
18. ANS: A PTS: 1 DIF: L3 REF: 1-9 Patterns, Equations, and Graphs
OBJ: 1-9.1 To use tables, equations, and graphs to describe relationships
NAT: CC A.CED.2| CC A.REI.10| A.1.a
TOP: 1-9 Problem 1 Identifying Solutions of a Two-Variable Equation
KEY: solution of an equation
19. ANS: C PTS: 1 DIF: L4 REF: 1-9 Patterns, Equations, and Graphs
OBJ: 1-9.1 To use tables, equations, and graphs to describe relationships
NAT: CC A.CED.2| CC A.REI.10| A.1.a TOP: 1-9 Problem 2 Using a Table, an Equation, and a Graph
KEY: solution of an equation | inductive reasoning

20. ANS: B PTS: 1 DIF: L4 REF: 1-9 Patterns, Equations, and Graphs
OBJ: 1-9.1 To use tables, equations, and graphs to describe relationships
NAT: CC A.CED.2| CC A.REI.10| A.1.a TOP: 1-9 Problem 2 Using a Table, an Equation, and a Graph
KEY: graphing | algebraic relationships | inductive reasoning