NAME _____ DATE _____ PERIOD _____

M7A Chapter-1 End of Chapter PRACTICE TEST

For Exercises 1-3, which expression represents the phrase?

1. nine increased by two

A. $\frac{9}{2}$ **B.** $9 \cdot 2$ **C.** $9 + 2$ **D.** $9 - 2$

2. four times a number

A. $4 \cdot 2$ **B.** $4x$ **C.** $4 + 2$ **D.** $y + 4$

3. r decreased by 7

A. $r - 7$ **B.** $7r$ **C.** $r + 7$ **D.** $7 - r$

For Exercises 4-9, what is the value of each expression?

4. $2 \cdot 4 + 3$

A. 24 **B.** 20 **C.** 11 **D.** 9

5. $6 + 8 \div 2$

A. 7 **B.** 10 **C.** 11 **D.** 12

6. $9(2 + 1) - 12$

A. 30 **B.** 16 **C.** 15 **D.** 5

7. $a - b$, if $a = 15$ and $b = 9$

A. 6 **B.** 7 **C.** 24 **D.** 25

8. $k + p - 16$, if $k = 12$ and $p = 8$

A. 4 **B.** 8 **C.** 12 **D.** 16

9. $u + 4v$, if $u = 9$ and $v = 4$

A. 17 **B.** 18 **C.** 25 **D.** 40

For Exercises 10 and 11, which expressions are equivalent?

10. $8 + (n + 7)$

A. $7n + 8$ **B.** $8n + 7$ **C.** $n - 1$ **D.** $n + 15$

11. $9 \cdot (7 \cdot m)$

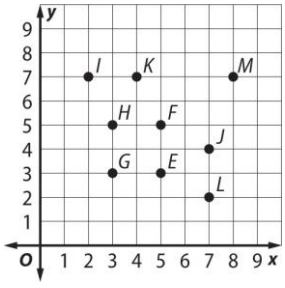
A. $16 + m$ **B.** $16m$ **C.** $7m + 9$ **D.** $63m$

For Exercises 12 and 13, refer to the coordinate plane.

12. Choose the point for the ordered pair (5, 3).

A. *H* **C.** *E*

B. *G* **D.** *B*



13. Which ordered pair names point *K*?

(,)

15. Which relation below has a domain of {1, 2, 5, 6}?

A. {(2, 0), (2, 3), (2, 5), (2, 7)} **C.** {(1, 3), (3, 1), (0, 5), (1, 8)}

B. {(1, 6), (2, 1), (5, 6), (6, 4)} **D.** {(6, 2), (8, 3), (5, 4), (8, 5)}

For Exercises 16-18, refer to the table.

x	12	16	20	24
y	0	4	8	12

16. Which ordered pair would appear in a graph of the data?

A. (0, 12) **B.** (12, 0) **C.** (12, 16) **D.** (20, 12)

17. Which rule represents the data in the table?

A. $x - 12$ **B.** $12 \cdot x$ **C.** $12 + x$ **D.** $x \div 12$

18. What is the range of the data?

A. {12, 16, 20, 24} **C.** {0, 4, 8, 12}

B. {12} **D.** {0, 12}

19. The sum of two consecutive odd integers is 32. What are the two integers?

A. 0 and 32 **B.** 16 and 16 **C.** 12 and 19 **D.** 15 and 17

20. A group bike tour costs $100 plus $25 for each rider. Write and evaluate an expression to find the total cost for 9 riders