TEST NAME: **Academic Enrichment Work 12/4**
TEST ID: **3424656**
GRADE: **07 - Seventh Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **School Assessment**

12/04/19, Academic Enrichment Work 12/4

Student: _____

Class: _____

Date: _____

1. **Which values of x make the inequality $1 + 5x < -9$ true?**

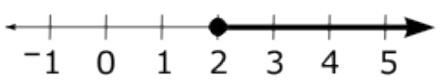
   A. $x < -2$

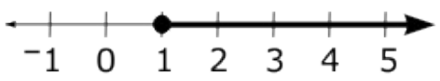
   B. $x < -15$

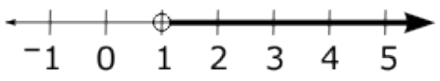
   C. $x > -2$

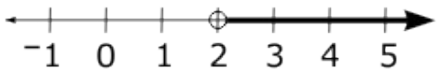
   D. $x > -15$

2. Which graph is the solution to the inequality $2x - 1 > 3$?

   A. 

   B. 

   C. 

   D. 

3. **What are all the values of x that make the inequality $8 - 3x < 20$ true?**

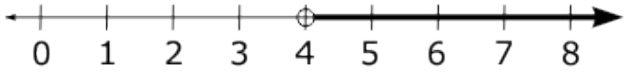
   A. $x > -4$

   B. $x > 15$

   C. $x < -4$

   D. $x < 15$

4. Which line graph shows the solution for $3x + 2 \leq 14$?

A.


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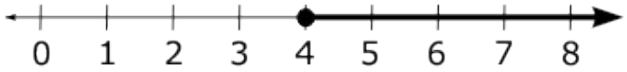
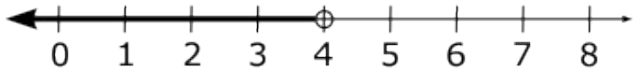
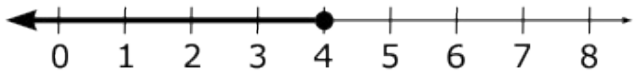


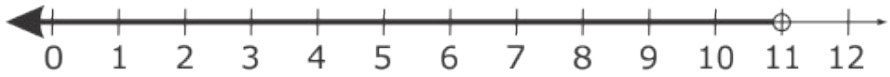
C.


D.


5. Which graph shows the solution to the inequality $4x + 10 < 34$?

A.


B.


C.


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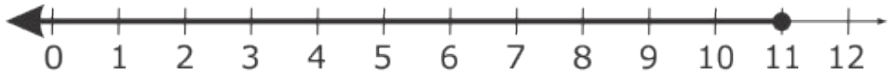


6. **If $3x + 4 \leq -11$, what is the solution for x?**

A. $x \geq -5$

B. $x \leq -5$

C. $x \geq -18$

D. $x \leq -18$

7. **What are the possible values of x if $12 + 6x \leq 36$?**

A. $x \leq 2$

B. $x \leq 4$

C. $x \leq 6$

D. $x \leq 8$

8. **In the inequality below, *y* represents the number of hand tools that can be rented at a hardware store each day.**

$$2y + 12 < 290$$

Which phrase BEST describes the number of hand tools the store rents each day?

A. more than 151 hand tools
B. less than 151 hand tools
C. more than 139 hand tools
D. less than 139 hand tools

9. **If $7 - 2x \geq 15$, what is the solution for *x*?**

A. $x \geq 10$
B. $x \geq -4$
C. $x \leq 10$
D. $x \leq -4$

10. **What are all possible values of *x* if**

$$\frac{2}{3}x + 3 > 9?$$

A. $x > 4$
B. $x > 8$
C. $x > 9$
D. $x > 18$

11. **What are all possible values of** x **if** $\frac{x}{3} + 7 > 28?$

A. $x > 7$
B. $x > 63$
C. $x > 77$
D. $x > 105$

12. What is the solution to the inequality $2x + 4 > 22$?

A. $x > 7$
B. $x > 9$
C. $x > 13$
D. $x > 15$

13. **What are all the possible values of x that satisfy $\frac{x}{4} + 8 > 24$?**

A. $x > 4$

B. $x > 64$

C. $x > 88$

D. $x > 128$

14. What is the solution to the $\frac{1}{3}x + 4 < 8$

A. $x < 36$

B. $x > 36$

C. $x < 12$

D. $x > 12$

15. **In the inequality $5x + 10 > 250$, x represents the number of papers Mr. Melamet will be able to grade in an evening. Which phrase most accurately describes the number of papers?**

A. exactly 48

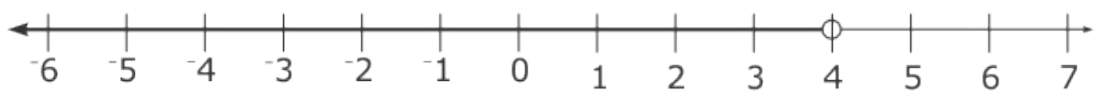
B. at most 52

C. more than 48

D. fewer than 52

16. Which graph represents the solution of $2x - 3 \leq 5$?

A.



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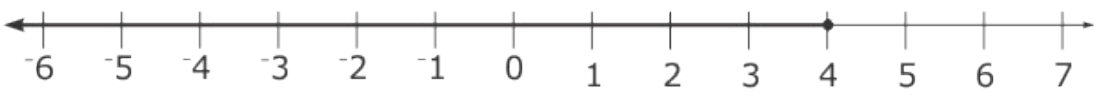

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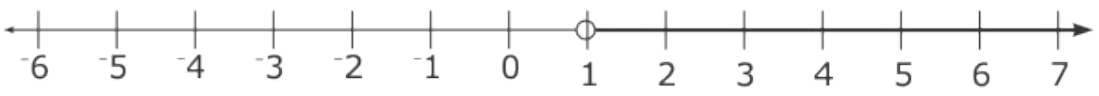

D.

17. **What are all possible values of x if $10x + 5 \geq 25$?**

A. $x \geq 2$

B. $x \geq 3$

C. $x \geq 20$

D. $x \geq 30$

18. **If $3m + 1 > 7$, what is one possible value for m?**

A. 3

B. 2

C. 1

D. 0