

1. Add:  $(3x^2 - 4x + 9) + (-6x^2 + 6x - 2) =$

- a.  $-3x^2 + 2x + 7$       b.  $-3x^2 + 2x - 7$       c.  $3x^2 + 2x + 7$       d.  $-3x^2 + 10x + 7$

2. Subtract:  $(3x^2 - 4x + 2) - (-3x^2 + 10x - 7) =$

- a.  $6x^2 + 6x - 5$       b.  $6x - 5$       c.  $-6x^2 - 14x + 9$       d.  $6x^2 - 14x + 9$

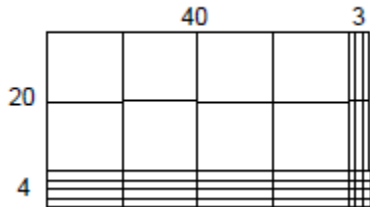
3. Multiply:  $-2(7)$

4. Multiply:  $-3(-5)$

5. Divide:  $\frac{-25}{5}$

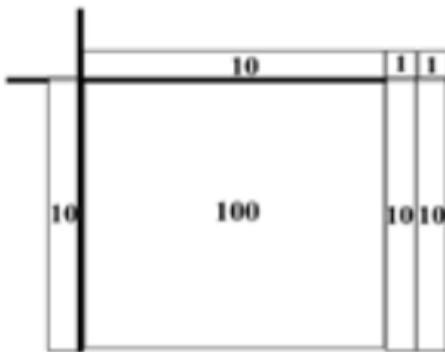
6. Divide:  $\frac{-20}{-4}$

7. The model below represents which of the following multiplication statements:



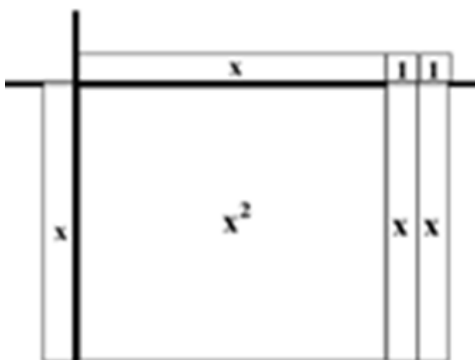
- a.  $40 \times 20 = 800$       b.  $43 \times 24 = 1032$   
 c.  $43 \times 20 = 860$       d.  $24 \times 40 = 960$

8. The model below could represent which of the following division statements:



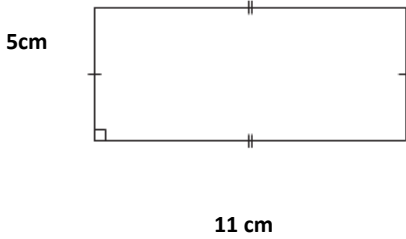
- a.  $120 \div 10 = 12$       b.  $100 \div 10 = 10$   
 c.  $120 \div 12 = 10$       d.  $120 \div 12 = 100$

9. The model below could represent which of the following division statements:

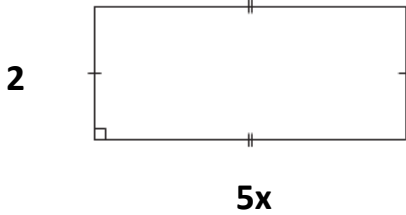


- a.  $x^2 \div x = x$       b.  $(x^2 + 2) \div x = x$   
 c.  $(x^2 + 2x) \div x = x + 2$       d.  $(x^2 + 2x) \div 2x = x + 2$

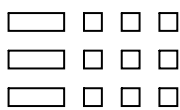
10. The area of the rectangle is:    **a.  $16 \text{ cm}^2$**                       **b.  $55 \text{ cm}^2$**                       **c.  $55 \text{ cm}$**                       **d.  $6 \text{ cm}^2$**



11. The area of the rectangle is:    **a.  $7x$**                                       **b.  $14x$**                                       **c.  $10x$**                                       **d.  $20x$**



12. Write the multiplication sentence modeled by this set of algebra tiles.



- a.  $3x9$**                                       **b.  $-3x9$**   
**c.  $3(x+3)$**                               **d.  $3(x+9)$**

13. Multiply:  $(-2)(4c^2 - 6c - 7)$

- a.  $-8c^2 - 12c - 14$**                       **c.  $-8c^2 + 12c + 14$**   
**b.  $2c^2 - 8c - 9$**                               **d.  $-8c^2 - 6c - 7$**

14. Multiply:  $(3x)(-4x + 3)$

- a.  $-12x + 9$**                                       **c.  $-12x^2 + 9x$**   
**b.  $-12x + 3$**                                       **d.  $-12x^2 + 3$**

15. Divide:  $\frac{30w^2 - 24w + 18}{6}$

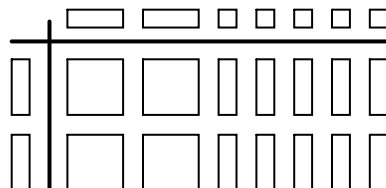
- a.  $24w^2 - 24w + 18$**                       **c.  $24w^2 - 18w + 12$**   
**b.  $5w^2 - 24w + 18$**                       **d.  $5w^2 - 4w + 3$**

16. Divide:  $\frac{25x^2 - 50x}{-5x}$

- a.  $-5x + 10$**                                       **c.  $-5x^2 - 50x$**   
**b.  $-5x^2 + 10x$**                                       **d.  $5x^2 - 10x$**

17. Which of these multiplication sentences is modeled by the algebra tiles below?

- a)  $2x(2x + 5)$**   
**b)  $2(2x^2 + 5)$**   
**c)  $x(2x + 5)$**   
**d)  $2x(4x^2 + 10x)$**



18. Other than this pretest, how well do you understand the material taught in class so far?

- a. Very well**                      **b. Good**                      **c. Somewhat**                      **d. Not at all.**