Week 18

1. What is the	first step	in s	solving t	the ec	quation
	16	_ (6x 1 12		

- A. Multiply by six on both sides of the equation
- B. Divide by six on both sides of the equation
- C. Add four on both sides of the equation
- D. Subtract four on both sides of the equation

- 6. Jennifer was traveling from Atlanta to Carnesville driving 55 mph. Which of the following does NOT express time to distance as a ratio?
 - A. 1:55
 - B. 1 to 55

MS7 5-1 and 5-2

2. Simplify the expression -3(4a+5)

- A. 12a + 5
- B. 12a + 15
- C. -12a + 5
- D. -12a-15

MS7 1-9

MS7 1-6

- 7. Which of the following DOES NOT correctly express the ratio $\frac{1}{2}$ as a proportion? Show Work!

 - A. $\frac{1}{2} = \frac{3}{6}$ C. $\frac{9}{18} = \frac{10}{20}$ B. $\frac{12}{24} = \frac{4}{8}$ D. $\frac{11}{22} = \frac{33}{44}$

MS7 5-4

3. Identify the property shown below:

$$23 + (27 + 139) = (23 + 27) + 139$$

- A. Distributive Property
- B. Commutative Property of Addition
- C. Identity Property of Addition
- D. Associative Property of Addition

- an equivalent ratio?

8. Given the ratio $\frac{4}{6}$, which of the following represents

MS7 5-1

$$5(2a - 6 + 3b - 4a)$$

- A. -10a-6+3b-4a
- B. -10a + 15b 30
- C. 20a-6+3b-4a
- D. 16a 6 + 3b

C.

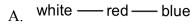
MS7 1-6 and 1-9

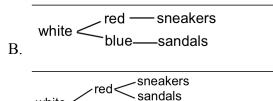
MS7 8-10

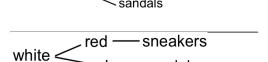
- 9. Solve the proportion $\frac{i}{8}$
 - A. x = 14
 - B. x = 17.5
 - C. x = 21
 - D. x = 24.5

MS7 5-5

5. Josie has the following choices of clothing in her closet: a white shirt, red or blue shorts, and sneakers or sandals. Which diagram shows all of the possible combinations of 1 shirt, 1 pair of shorts, and 1 kind of shoes?







10. Solve.

$$\frac{41}{b} = \frac{72.8}{100}$$

- A. b = 56
- B. b = 56.22
- C. b = 56.32
- D. b = 55

11. Evaluate $b^3 + 6 if b = -2$.

A. -14

B. 14

C. 2

D. -2

MS7 8-10

A. -112

B. 96 C. 112

D. 150

12. A submarine descends 720 feet below the sea level. Then it ascends 150 feet. What is the current location of the submarine expressed as an integer?

- A. 870 feet
- B. -870 feet
- C. 570 feet
- D. -570 feet

MS7 2-2 and 2-3

17. With 6 gallons of gas, you are able to drive 75 miles. How many miles does your car get per gallon?

16. Find the value of *d* that makes the equation true. $d \div (-8) = -14$

- $B. \ \frac{450 \ gallons}{1 \ mile}$
- D. $\frac{450 \text{ miles}}{1 \text{ gallon}}$

MS7 5-2

13. On Monday, the postman delivered 5 checks for \$3 each and 2 bills for \$2 each. If your beginning bank account balance is \$25, what will be the ending balance once you deposit the checks and pay the bills?

- A. -\$26
- C. \$26
- B. \$6
- D. \$36

MS7 2-2 and 2-3

18. Anita owns three brown skirts, w white skirts, and two red skirts. Which equations shows how to find how many white skirts she owns if she owns eight skirts in all?

A.
$$3 + w + 8 = 2$$

C.
$$3w + 2 = 8$$

B.
$$3 + 2 + 8 = w$$

D.
$$3 + w + 2 = 8$$

MS7 12-1

14. During the football game, Jay caught three passes. The 1st was a touchdown of 52 yards. The 2nd was for a 1st down of 17 yards. The final pass was a screen pass that had a loss of 10 yards. What was the total yardage on the three pass plays?

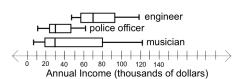
A. -39

C. 62

B. 59 D. 69 MS7 2-2 and 2-3

15. The accompanying box-and-whisker plots can be

used to compare the annual incomes of three professions.



Which of the following statements is true?

- A. The median income for engineers is greater than the income of all musicians
- B. The median income for police officers and musicians is the same.
- C. All engineers earn more than all police officers.
- D. A musician will eventually earn more than a police officer.

19. Look at the proportion below. It can be solved using a variety of methods. Solve the proportion using **two different** methods. Show your work.

$$\frac{120}{x} = \frac{8}{5}$$

MS7 5-5