Multiple Choice: Solving Proportions

Directions: Answer the following questions.

1. Which ratio is equivalent to the ratio five-eighths?
A. 51 to 81
B. forty divided by twenty-five
C. 20:32
D. 8 to 5

2. Which proportion is equivalent to two over 3 equals k over k?
A. the quantity 2 plus k over 2 equals the quantity 3 plus h over 3
B. the quantity 2 plus 3 over 3 equals the quantity h plus k over k
C. 2 over k equals 3 over h
D. 3 over 2 equals h over k

3. Which proportion is equivalent to the quantity 5 plus a over 5 equals the quantity 4 plus b over 4?
A. a over 4 equals b over 5
B. 5 over 4 equals b over a
C. the quantity 4 minus 5 over 5 equals the quantity a minus b over b
D. a over 5 equals b over 4

4. Solve x over 120 equals 7 over 70.
A. x = 12
B. x = 1200
C. x = 4.08
D. x = 0.08

5. Solve the quantity x plus 5 over 16 equals 32 over 5.
A. x = -2.5
B. x = 487
C. x = 97.4
D. x = 100

6. Solve the quantity 2x plus 3 over the quantity x minus 4 equals 5 over 8.
A. x = -0.636
B. x = -23.5
C. x = -3.5
D. x = -0.364

Answers:

1. C
@ Set the ratios equal to each other and cross multiply to check if they are proportional.

2. B
@ Cross multiply and compare the resulting equations to see if they are equivalent.

3. D
@ Cross multiply and compare the resulting equations to see if they are equivalent.

4. A
@ Cross Multiply and solve for x.

5. C
@ Cross Multiply and solve for x.

6. D
@ Cross Multiply and solve for x.