

Concrete Algebra Student Sheet 8.3a

Part I

Simplify.

1. $(-15) \div (3)$
2. $4 - (-5)$
3. $(-3)(-10)(-1)$
4. $-4 + 7 + [-(-2)]$
5. $|-4| + |-3|$

Part II

IN YOUR SPIRAL, for EACH equation below:

- DRAW your solution,
- SHOW your steps, and
- CHECK your solution in red.

1. $2x - 7 = 5x + 14$
2. $2x + 4 + x + 2 = 10 + 11$
3. $5x - 4 = 2x + 2$
4. $5b - 3 + b + 4 = 6 - 8$
5. $4n + 5 = 2n - 17$
6. $2y + 4 + y + y = y + 1$
7. $2j + 5 = 3j - 2$
8. $3 + 2x - 4 = 3x$
9. $-2 + 2x - 4 = 5x$

Part III (Challenge)

Write an EQUATION and SOLVE.

A \$30 pair of jeans costs \$6 more than 3 times as much as the matching scarf. If you buy one pair of jeans, you get one free. How much is the scarf?

Concrete Algebra Student Sheet 8.3b

Part I

Simplify.

1. $(-4) + (-6)$
2. $(-72) \div (-8)$
3. $-2(-3)$
4. $-|-4| + |-3|$
5. $(-2)(2)(-3)(0)(-3)(1)(-2)$

Part II

IN YOUR SPIRAL, for EACH equation below:

- DRAW your solution,
- SHOW your steps, and
- CHECK your solution in red..

1. $3 + 2x - 10 = 3x$
2. $5m + 8 = 3m$
3. $-5 + 8x - 6x = 41$
4. $5k - 2k = -6$
5. $4x - 2x = 10$
6. $-5 + 8x = 40 + 3x$
7. $g + 2g + 1 + g = 2 + 5$
8. $4p + 3 + 5 + p + p = 2p$
9. $3n - n + n - 7 = 2 + 2n$

Part III (Challenge)

Write an EQUATION and SOLVE.

Sally spent twice times as long on homework as Fred. Jerry spent an hour longer than Sally and 2 hours more than Fred. How long did each student spend on homework?