

Week 17

Monday 13th July 2020

**Year 5 Use Two Step Equations -
Varied Fluency**

***Try completing the **GD** work at the end as a
challenge**

Two Step Equations

1a. Are the following statements true or false?

i. If $x = 4$, then $2x + 1 = 9$

ii. If $y = 5$, then $y + 2 = 7$

iii. If $z = 3$, then $2z - 1 = 4$



Two Step Equations

1b. Are the following statements true or false?

i. If $x = 3$, then $x + 3 = 9$

ii. If $y = 4$, then $2y + 5 = 13$

iii. If $z = 6$, then $2z - 2 = 10$



2a. What is the correct value of c ?

$$2c - 7 = 13$$

15

18

10



2b. What is the correct value of c ?

$$2c + 12 = 18$$

5

3

7



3a. Match each equation to the correct value of a .

$$2a - 5 = 7$$

$$a = 8$$

$$a + 4 = 12$$

$$a = 5$$

$$8 = 3 + a$$

$$a = 6$$



3b. Match each equation to the correct value of a .

$$a - 3 = 6$$

$$a = 3$$

$$a + 6 = 14$$

$$a = 9$$

$$9 = 3 + 2a$$

$$a = 8$$



4a. Fill in the missing operation to show how to solve the equation below.

$$x - 6 = 24$$



$$x = 30$$



4b. Fill in the missing operation to show how to solve the equation below.

$$x + 5 = 22$$



$$x = 17$$



Two Step Equations

5a. Are the following statements true or false?

i. If $x = 6$, then $3x - 2 = 16$

ii. If $y = 4$, then $2y + y = 10$

iii. If $z = 8$, then $0.25z + 1 = 3$



Two Step Equations

5b. Are the following statements true or false?

i. If $x = 6$, then $0.5x + 2 = 5$

ii. If $y = 5$, then $4y - y = 15$

iii. If $z = 7$, then $3z + 4 = 10$



6a. What is the correct value of c ?

$$11c - 16 = 116$$

9

12

14



6b. What is the correct value of c ?

$$10c + 13 = 103$$

8

9

10



7a. Match each equation to the correct value of a .

$$9a \div 3 = 12$$

$$a = 0.5$$

$$\frac{1}{4}a + 11 = 14$$

$$a = 4$$

$$9 = 5 + 8a$$

$$a = 12$$



7b. Match each equation to the correct value of a .

$$3a \div 2 = 12$$

$$a = 10$$

$$\frac{1}{2}a + 11 = 16$$

$$a = 0.25$$

$$8 = 7 + 4a$$

$$a = 8$$



8a. Fill in the missing operations to show how to solve the equation below.

$$5x - 7 = 18$$



A

$$5x = 25$$



B

$$x = 5$$



8b. Fill in the missing operations to show how to solve the equation below.

$$6x + 4 = 22$$



A

$$6x = 18$$



B

$$x = 3$$



Challenge

9a. Are the following statements true or false?

i. If $x = 12$, then $0.75x = 9$

ii. If $y = 7$, then $3y \div y = 5$

iii. If $z = 9$, then $7 - z = -1$



9b. Are the following statements true or false?

i. If $x = 8$, then $0.75x = 2$

ii. If $y = 11$, then $4y \div y = 11$

iii. If $z = 7$, then $5 - z = -2$



10a. What is the correct value of c ?

$$\frac{1}{5}c + 48 = 60$$

12

30

60



10b. What is the correct value of c ?

$$\frac{1}{10}c + 91 = 100$$

10

80

90



11a. Match each equation to the correct value of a .

$$18a + 24 = 30$$

$$a = 4$$

$$9a + 17 = 21.5$$

$$a = \frac{1}{3}$$

$$-5 = 6a - 29$$

$$a = 0.5$$



11b. Match each equation to the correct value of a .

$$20a + 36 = 41$$

$$a = 0.5$$

$$7a + 34 = 37.5$$

$$a = 5$$

$$-4 = 6a - 34$$

$$a = \frac{1}{4}$$



12a. Fill in the missing operations to show how to solve the equation below.

$$28x + 6.3 = 10.3$$

↓ A

$$28x = 4$$

↓ B

$$x = \frac{1}{7}$$



12b. Fill in the missing operations to show how to solve the equation below.

$$45x + 9.6 = 14.6$$

↓ A

$$45x = 5$$

↓ B

$$x = \frac{1}{9}$$

