Order of Operations 1.3

Overview of problems

🚩 *Example Set: A*

Solve:

1. $32 - 24 \div 2$

2. $11 + 56 \div (2 \cdot 7)$

3. $6 + 4 \div 2 \times 6$

4. $(3^2 - 1 \times 8)^2$

🚩 *Example Set: B*

Evaluate the expressions:

1. $(21 + 3) \div 4 \times 2$

2. $2[8 + (5 - 3)] - 7$

3. $16 \div [(9 - 5)^2] \times 16$

Order of Operations 1.3

Overview of problems

🚩 *Example Set: C*

Write the expressions using powers:

1. $10[9(2+4)-6(2)]$

2. $\dfrac{(4-2)^2+5}{3}$

3. Find the value of **d** using the following values: $x=8, x_1=6, y=13, y_1=7$

$$d = \sqrt{(x-x_1)^2 + (y-y_1)^2}$$

🚩 *Example Set: D*

1. Evaluate for the following values: $x=4, y=2$

$$\dfrac{(4x^2-y)+x\div y}{xy}$$

Insert grouping symbols to make the following sentences true:

2. $5 + 2 \cdot 9 - 3 = 42$

3. $7 \cdot 8 - 6 + 3 = 17$

4. $12 \times 3 \div 1 + 2 = 12$

Order of Operations 1.3

Overview of problems

🚩 *Example Set: A* **– ANSWER KEY**

Solve:

1. $32 - 24 \div 2$ =20

2. $11 + 56 \div (2 \cdot 7)$ =15

3. $6 + 4 \div 2 \times 6$ =18

4. $(3^2 - 1 \times 8)^2$ =1

🚩 *Example Set: B* **– ANSWER KEY**

Evaluate the expressions:

1. $(21 + 3) \div 4 \times 2$ =12

2. $2[8 + (5 - 3)] - 7$ =13

3. $16 \div [(9 - 5)^2] \times 16$ =16

🚩 *Example Set: C –* **ANSWER KEY**

1. $10[9(2+4)-6(2)]$ =420

2. $\dfrac{(4-2)^2+5}{3}$ =3

3. Find the value of **d** using the following values: $x=8, x_1=6, y=13, y_1=7$

$$d=\sqrt{(x-x_1)^2+(y-y_1)^2}$$ $=\sqrt{40}$

🚩 *Example Set: D-* **ANSWER KEY**

1. Evaluate for the following values: $x=4, y=2$

$$\dfrac{(4x^2-y)+x\div y}{xy}$$ =8

Insert grouping symbols to make the following sentences true:

2. $(5+2)\cdot(9-3)=42$

3. $7\cdot(8-6)+3=17$

4. $(12\times3)\div(1+2)=12$