

5th Grade Math- Operations & Algebraic Thinking Std. 1 Practice Test

Multiple Choice

Identify the choice that best completes the statement or answers the question.

1. $3(6)+5$

- a. 36
- b. 48

- c. 14
- d. 23

2. $3(6-2)+5$

- a. 22
- b. 16

- c. 17
- d. 29

3. $3(6-2)+5-[2(1+5)-2]$

- a. 7
- b. 8

- c. 6
- d. 11

4. $3(6-2)+5-2(1+5)-2$

- a. 4
- b. 3

- c. 2
- d. 12

5. $5(6-4)+5-2$

- a. 12
- b. 13

- c. 7
- d. 14

6. $5(6-4)+(5-2)-10$

- a. 4
- b. 5

- c. 3
- d. 0

7. $5(6-4)+[(5-2)-10]+15$

- a. 16
- b. 17

- c. 18
- d. 19

8. $5(6-4)+2-[(5-2)-10]+15$

- a. 33
- b. 34

- c. 35
- d. 36

9. $5(7-4)+22$

- a. 34
- b. 35

- c. 36
- d. 37

10. $5+22-(7-4)+22$

- a. 46
- b. 47

- c. 48
- d. 49

Answer 1: D

$$\begin{aligned} &3(6)+5 \\ &18+5 \\ &=23 \end{aligned}$$

Answer 2: C

$$\begin{aligned} &3(6-2)+5 \\ &3(4)+5 \\ &12+5 \\ &=17 \end{aligned}$$

Answer 3: A

$$\begin{aligned} &3(6-2)+5-[2(1+5)-2] \\ &3(4)+5-[2(1+5)-2] \\ &3(4)+5-(2(6)-2) \\ &12+5-(2(6)-2) \\ &12+5-(12-2) \\ &12+5-(10) \\ &12+5-10 \\ &17-10 \\ &=7 \end{aligned}$$

Answer 4: B

$$\begin{aligned} &3(6-2)+5-2(1+5)-2 \\ &3(4)+5-2(1+5)-2 \\ &3(4)+5-2(6)-2 \\ &12+5-2(6)-2 \\ &12+5-12-2 \\ &17-12-2 \\ &5-2 \\ &3 \end{aligned}$$

Answer 5: B

$$\begin{aligned} &5(6-4)+5-2 \\ &5(2)+5-2 \\ &10+5-2 \\ &15-2 \\ &=13 \end{aligned}$$

Answer 6: C

$$\begin{aligned} &(6-4)+(5-2)-10 \\ &5(2)+(5-2)-10 \\ &(2)+(3)-10 \\ &10+3-10 \\ &-10 \\ &=3 \end{aligned}$$

Answer 7: C

$$\begin{aligned} &5(6-4)+[(5-2)-10]+15 \\ &5(2)+[(5-2)-10]+15 \\ &5(2)+((3)-10)+15 \\ &5(2)+(-7)+15 \\ &10-7+15 \\ &3+15 \\ &=18 \end{aligned}$$

Answer 8: B

$$\begin{aligned} &5(6-4)+2-[(5-2)-10]+15 \\ &5(2)+2-[(5-2)-10]+15 \\ &5(2)+2-((3)-10)+15 \\ &5(2)+2-(-7)+15 \\ &10+2+7+15 \\ &12+7+15 \\ &=34 \end{aligned}$$

Answer 9: D

$$\begin{aligned} &5(7-4)+22 \\ &5(3)+22 \\ &15+22 \\ &=37 \end{aligned}$$

Answer 10: A

$$\begin{aligned} &5+22-(7-4)+22 \\ &5+22-(3)+22 \\ &+22-3+22 \\ &27-3+22 \\ &=46 \end{aligned}$$