

YEAR 8 MATHEMATICS WEEK 5 2020 (TERM 2)

Year: 8

Date: Wednesday 17 June 2020

STRAND: NUMBERS

TOPIC: Directed Numbers

LESSON OUTCOME: At the end of this lesson student(s) should be able to Calculate directed numbers using the order of operation method.

Instructions: Hi dear Parents/Guardians and students - In this Lesson students are going to Calculate directed numbers using the order of operation method by doing the selected questions for **Exercise 2.10**.

*[Note that all the Quizzes/Test and or Assignment will be based on the selected questions for each exercise. These lessons are designed for **one hour per Lesson**.]*

What to do: Do the following selected questions

Exercise 2.10: Q1; Q3; Q10; Q15; Q19; Q27; Q36

Solutions: Solutions will be available online via

<https://www.facebook.com/centralschoolemergencyforum/posts/108720557434149>

EXERCISE 2.9

- | | | |
|---------------------|-----------------------------|------------------------------|
| 1. $49 \div -7$ | 16. $-30 \div -15$ | 31. $-65 \div 5$ |
| 2. $-14 \div -2$ | 17. $-30 \div -2$ | 32. -5×-20 |
| 3. $-24 \div 3$ | 18. $+100 \div -5$ | 33. $-8 \times 2\frac{1}{2}$ |
| 4. $-25 \div 5$ | 19. $-21 \div -7$ | 34. $+14 \times \frac{1}{2}$ |
| 5. $16 \div -8$ | 20. $+21 \times -3$ | 35. -18×-2 |
| 6. $-21 \div -7$ | 21. $-1 \div -10$ | 36. $-49 \div 2$ |
| 7. $-35 \div 7$ | 22. $+40 \div -4$ | 37. $-7 \times -2 \times -1$ |
| 8. $24 \div -12$ | 23. $-50 \div -15$ | 38. $+68 \div -4$ |
| 9. $-48 \div -6$ | 24. $-25 \div -2$ | 39. $50 \div -2$ |
| 10. $-30 \div 10$ | 25. $-2 \times -2 \times 2$ | 40. $-28 \div -2$ |
| 11. $64 \div -8$ | 26. $-33 \div -11$ | 41. $-63 \div +9$ |
| 12. $-72 \div -8$ | 27. $-45 \div 9$ | 42. $-44 \div -4$ |
| 13. $-8 \div -2$ | 28. $-100 \div 25$ | 43. $-70 \div 2$ |
| 14. $-8 \times +2$ | 29. $-64 \div -2$ | 44. 6×-2 |
| 15. $+24 \times -2$ | 30. $35 \div -5$ | 45. $-120 \div -60$ |

Order of Operations

Reminder:

- Do**
1. All brackets first
 2. All times (x) and division (÷) from left to right
 3. All plus (+) and minus (-) from left to right.

Example 1 Simplify $(-2 - 4) \times 2$

$(-2 - 4)$ becomes -6

$$= -6 \times 2$$

$$= -12$$

Example 2 Simplify $-1 \times -7 - (24 - 2)$

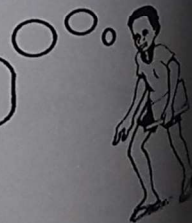
$$= -1 \times -7 - 12$$

$$= 7 - 12$$

$$= 7 + 12$$

$$= 19$$

do the bracket first



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EXERCISE 2.10

Simplify:

- | | |
|------------------------------------|-------------------------------------|
| 1. $17 + (2 \times -4)$ | 19. $24 - (+9 \div 3)$ |
| 2. $3 \times -4 + (7 \times 3)$ | 20. $4 \div (6 + 2) \times 2$ |
| 3. $(-70 - 7) - (-15 + 10)$ | 21. $14 - (2 + 3) \times 2$ |
| 4. $6 + 4 \times -9$ | 22. $51 - 3 \times 3$ |
| 5. $12 - 3 \times -6 + 9$ | 23. $11 + (12 - 8) \times 2$ |
| 6. $10 - 3 - 9 + 1$ | 24. $4 \div 4 + 7 \times 2$ |
| 7. $11 \times -6 - 9$ | 25. $2 \times (15 - 5) - 5$ |
| 8. $-7 \times 3 - (-40 \div 8)$ | 26. $9 \div 1 - 4$ |
| 9. $-16 \div -2 + (-3 \times -2)$ | 27. $\frac{(11 + 9)}{(7 - 2)}$ |
| 10. $(-64 \div -8) + 13 \times -3$ | 28. $(6 \times 2) \div 3 + (-1)$ |
| 11. $-5 + (16 \times -3) - 11$ | 29. $3 + 3 \times (7 - 3)$ |
| 12. $108 \div 2 \times -7$ | 30. $(-8 \div -2) \times -4$ |
| 13. $9 + (+2 \times +2)$ | 31. $(6 + 2) \times 3 + 2$ |
| 14. $15 - 8 \div 1$ | 32. $-6 \times 2 + 3$ |
| 15. $(+12 + +2) \div 2 - 5$ | 33. $(23 - 3) \div 4 + 3$ |
| 16. $6 \times 6 - 5 \times 5$ | 34. $(-16 \div 4) \times -2$ |
| 17. $16 - (6 + 1) \times 2$ | 35. $15 - (6 + 3)$ |
| 18. $16 - (8 - 8)$ | 36. $3 + 2 \times 7 - (2 \times 4)$ |