

# EXTRA PRACTICE - Exercises

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## Unit I – The Structure of Mathematics Part C – Further Investigation of Operation Symbols Lesson 1 – Order of Operations

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Evaluate the following closed phrases.

- $[(-24) \div (-3)] \div -\frac{1}{2}$
- $[32 \div (-2)] \div (-2)$
- $8 [9 - 2(5 - 3)]$
- $10 [6 - 5(8 - 4)]$
- $[4(9 - 6) + 11] - [14 - (6 + 4)]$
- $10 \cdot 20 - 15 \cdot 24$
- $[9 - 2(5 - 1)]$
- $[11 + 4(9 - 6)] - [14 - (6 - 4)]$
- $2^4 + 2^3 - 10 \cdot 20$
- $2 \cdot 5^3 - 4 \cdot 5^2 - 3 \cdot 5 + 7$
- $[40 \div (4 \cdot 5)] \div 2$
- $[7(8 - 4) + 16] - [15 - (7 + 3)]$
- $(7 \cdot 8 + 2 \cdot 2)^2$
- $4^3 + 20 \cdot 30 + 8^2 - 23$
- $36 - 6 \cdot 3 \div 18 \div 3$
- $[24 \div (-3)] \div -\frac{1}{4}$
- $23 \cdot 10 - (3 + 5)^2$
- $[9(7 - 3) + 13] - [11 - 2(6 + 9)]$
- $40 \div 4 \cdot 5 \div 2$
- $2^3 + 3^2 - (12 \cdot 4 + 35)$
- $\frac{10^2 - 4^2}{10 + 4}$
- $\frac{3^5 \div 27}{3^2 \div 3}$
- $\frac{7(5^2 - 2 \cdot 11)}{3 + 4}$
- $\frac{12 + 9}{21 \div (7 \cdot 2)}$
- $\frac{250 \cdot 6}{(4 \cdot 16) \div (8 \cdot 2)}$
- $\frac{54}{9 \div (3 - 2)}$
- $12 \cdot 15 - 6^2 + 5^3$
- $(7)(-5)(-6)(-0.5)$
- $(-3)(-4)(-20)(-6)$
- $9 - 3 \div 4 + 2 \cdot 12 + 6 \div 2 \cdot 3$

# EXTRA PRACTICE — Answer Key

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Evaluate the following closed phrases.

1. -16

2. 8

3. 40

4. -140

5. 19

6. -160

7. 1

8. 11

9. -176

10. 142

11. 1

12. 39

13. 3600

14. 705

15.  $35 \frac{2}{3}$

16. 32

17. 166

18. 68

19. 25

20. -66

21. 6

22. 3

23. 3

24. 14

25. 375

26. 6

27. 269

28. -105

29. 1440

30.  $41 \frac{1}{4}$