

EXTRA PRACTICE - Exercises

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Unit I – The Structure of Mathematics Part C – Further Investigation of Operation Symbols **Lesson 9 – Operations with Signed Numbers - Addition**

Find the answer to the following by adding vectors on a number line.

- | | |
|--------------|--------------|
| 1. $-3 + -5$ | 2. $+3 + +2$ |
| 3. $-4 + -3$ | 4. $+1 + +1$ |
| 5. $+4 + +5$ | 6. $-7 + -4$ |

Find the answer mentally to the following by remembering the patterns from exercises 1 - 6.

- | | |
|------------------|-------------------|
| 7. $-8 + -6$ | 8. $+37 + +25$ |
| 9. $-41 + -9$ | 10. $+17 + (+23)$ |
| 11. $-5 + (-9)$ | 12. $-1 + -1$ |
| 13. $-48 + -169$ | 14. $+212 + +417$ |

Find the answer to the following by adding vectors on a number line.

- | | |
|----------------|---------------|
| 15. $+3 + -2$ | 16. $-4 + +3$ |
| 17. $+7 + -4$ | 18. $-5 + +5$ |
| 19. $+9 + -13$ | 20. $-2 + +5$ |

Find the answer mentally to the following by remembering the patterns from exercises 15-20.
(notice that the answer to this type of problem can be either positive or negative. Watch for the signs!)

- | | |
|-------------------|-------------------|
| 21. $-89 + +247$ | 22. $+58 + -136$ |
| 23. $-241 + 555$ | 24. $+95 + -17$ |
| 25. $+194 + -111$ | 26. $-156 + +143$ |
| 27. $182 + -62$ | 28. $-329 + +327$ |
| 29. $+92 + -121$ | 30. $-43 + +43$ |
| 31. $-413 + +415$ | 32. $-64 + +83$ |
| 33. $-112 + +32$ | 34. $+67 + -122$ |
| 35. $-78 + +42$ | |

EXTRA PRACTICE — Answer Key

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Unit I – The Structure of Mathematics Part C – Further Investigation of Operation Symbols **Lesson 9 – Operations with Signed Numbers - Addition**

Find the answer to the following by adding vectors on a number line.

- | | |
|---------|----------|
| 1. -8 | 2. 5 |
| 3. -7 | 4. 2 |
| 5. 9 | 6. -11 |

Find the answer mentally to the following by remembering the patterns from exercises 1 - 6.

- | | |
|------------|-----------|
| 7. -14 | 8. 62 |
| 9. -50 | 10. 40 |
| 11. -14 | 12. -2 |
| 13. -217 | 14. 629 |

Find the answer to the following by adding vectors on a number line.

- | | |
|----------|----------|
| 15. 1 | 16. -1 |
| 17. 3 | 18. 0 |
| 19. -4 | 20. 3 |

Find the answer mentally to the following by remembering the patterns from exercises 15-20.
(notice that the answer to this type of problem can be either positive or negative. Watch for the signs!)

- | | |
|-----------|-----------|
| 21. 158 | 22. -78 |
| 23. 314 | 24. 78 |
| 25. 83 | 26. -13 |
| 27. 120 | 28. -2 |
| 29. -29 | 30. 0 |
| 31. 2 | 32. 19 |
| 33. -80 | 34. -55 |
| 35. -36 | |