

# EXTRA PRACTICE - Exercises

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## Unit I – The Structure of Mathematics Part C – Further Investigation of Operation Symbols Lesson 8 – Operations with Signed Numbers - Vectors and Absolute Value

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For the following, represent the given signed numbers as vectors and tell what signed number is represented by the given vectors.



2.  $-3$



5.  $-5$



7.  $+2$



9.  $+8$

For each of the following, find the absolute value as indicated.

10.  $|-1|$

11.  $|19|$

12.  $|-64|$

13.  $|15 - 15|$

14.  $|-7.3|$

15.  $\left| -2\frac{1}{2} \right|$

16.  $\left| \frac{-9}{4} \right|$

17.  $|12 + 12|$

18.  $|9.33|$

19.  $|+17|$

20.  $|-512|$

21.  $|42 - 20|$

Find the answer to the following addition problems using a number line and vector addition.

22.  $+4 + -3 + +5$

23.  $-6 + +3 + +6$

24.  $-2 + +5 + +3$

25.  $+7 + -4 + -3$

26.  $-3 + +7 + -9$

# EXTRA PRACTICE — Answer Key

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For the following, represent the given signed numbers as vectors and tell what signed number is represented by the given vectors.

1.  $-8$

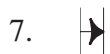


3.  $+5$

4.  $+3$



6.  $+1$



8.  $-9$



For each of the following, find the absolute value as indicated.

10.  $1$

11.  $19$

12.  $64$

13.  $0$

14.  $7.3$

15.  $2\frac{1}{2}$

16.  $\frac{9}{4}$

17.  $24$

18.  $9.33$

19.  $17$

20.  $512$

21.  $22$

Find the answer to the following addition problems using a number line and vector addition.

22.  $+6$

23.  $+3$

24.  $+6$

25.  $0$

26.  $-5$