

# Grade 7 Decimals Word Problems

Decimals • Grade 7 • Word Problems • Set B

Name: \_\_\_\_\_

Date: \_\_\_\_\_

*Read each problem carefully. Show your work, then write your answer on the line.*

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1. The temperature was  $-6.1^{\circ}\text{C}$  at dawn and rose by  $7.7^{\circ}\text{C}$  by noon. What was the noon temperature?

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2. On a winter night, the temperature was  $-2.1^{\circ}\text{F}$ . The next morning it was  $-12.8^{\circ}\text{F}$ . How many degrees did the temperature drop overnight?

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3. The temperature was  $-21.7^{\circ}\text{C}$  at dawn and rose by  $16.5^{\circ}\text{C}$  by noon. What was the noon temperature?

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4. A deep-sea fish swam from  $-204$  feet to  $-146$  feet. How many feet did the fish rise?

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5. Ava's account shows \$5.98. A payment of \$45.07 goes through. What is the new balance?

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6. Yara borrowed \$120 from a relative, paid back  $\frac{1}{2}$  of the debt in the first month and  $\frac{1}{4}$  of the debt in the second month. How much does Yara still owe?

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7. Ben's account shows \$12.01. A payment of \$70.77 goes through. What is the new balance?

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8. A scuba diver descended at a rate of -4.4 meters per minute. After 3.4 minutes, how deep is the diver?

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9. Ivan's account shows \$35.90. A payment of \$6.25 goes through. What is the new balance?

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10. Tessa had \$63.00 in an account, then made 4 equal withdrawals of \$23.25 each. What is the account balance after the withdrawals?

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## Answer Key

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|---------------------------|--------------------|----------------|
| 1. $1.6^{\circ}\text{C}$  | 5. $-\$39.09$      | 9. $\$29.65$   |
| 2. $10.7^{\circ}\text{F}$ | 6. $\$30$          | 10. $-\$30.00$ |
| 3. $-5.2^{\circ}\text{C}$ | 7. $-\$58.76$      |                |
| 4. 58 feet                | 8. $-14.96$ meters |                |