



## Puzzle Time

### What Kind of Coat Is Made Without Buttons?

Write the letter of each answer in the box containing the exercise number.

Find the cube root.

1.  $\sqrt[3]{216}$

2.  $\sqrt[3]{-343}$

3.  $\sqrt[3]{\frac{27}{64}}$

4.  $\sqrt[3]{-\frac{1000}{1331}}$

Evaluate the expression.

5.  $21 - \sqrt[3]{729}$

6.  $\sqrt[3]{-\frac{1}{125}} + 6\frac{1}{2}$

7.  $6\sqrt[3]{-512} + 13$

8.  $(\sqrt[3]{-2744})^3 + 2800$

Evaluate the expression for the given value of the variable.

9.  $3a - \sqrt[3]{5a}, a = 25$

10.  $\sqrt[3]{-\frac{x}{5}} + \frac{x}{10}, x = 320$

11. The volume of a box is 8000 cubic millimeters. What is the edge length of the box?

11	6	3	8		2	5		10	4	1	9	7
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#### Answers

A.  $-\frac{10}{11}$

I. 6

T. 56

A.  $\frac{3}{4}$

T. -35

C. 20

F. 12

N. 70

O. -7

P. 28

O.  $6\frac{3}{10}$