Fiction

Fiction

Nonfiction

Nonfiction

Child

Adult

Standardized Test Prep Conditional Probability

Multiple Choice

For Exercises 1–2, choose the correct letter.

A local bookstore classifies its books by type of reader, type of book, and cost. Use the table at the right for Exercises 1-2.

1. What is the probability that a book selected at random is a child's book, given that it costs \$15?

	315
$\left(\mathbf{A}\right)$	1005

B	470
	100

31.
57

Class

$$\bigcirc$$
 $\frac{470}{575}$

< \$10

120

35

200

75

> \$10

255

60

110

150

2. What is the probability that a book selected at random is fiction, given that it costs \$6?

$$\frac{320}{1005}$$

$$\frac{430}{1005}$$

$$\frac{120}{430}$$

$$\frac{320}{430}$$

Extended Response

3. Of the photographs produced in one day at a photo shop, 25% are black-and-white, and the rest are in color. Portraits make up 65% of the black-and-white photos and 45% of the color photos. Let B, C, P, and N represent black-and-white, color, portrait, and not a portrait, respectively. Draw a tree diagram to represent this situation. What is the probability that a photo chosen at random is not a portrait? Show your work.