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## 1 1-4 Standardized Test Prep <br> 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 $\$ 15$ ?
(A) $\frac{315}{1005}$
(B) $\frac{470}{1005}$
(C) $\frac{315}{575}$
(D) $\frac{470}{575}$
2. What is the probability that a book selected at random is fiction, given that it costs $\$ 6$ ?
(F) $\frac{320}{1005}$
1005
(G) $\frac{430}{1005}$
(H) $\frac{120}{430}$
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.
