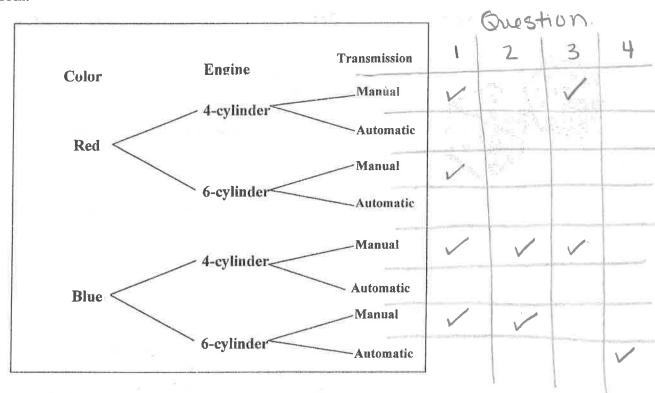
Name:	
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Probability and Compound Events Worksheet

An automobile dealer has cars available with the combinations of colors, engines, and transmissions indicated in the following tree diagram. A selection is made at random.



- 1. What is the probability of selecting a car with manual transmission? $\frac{4}{8} = 50^{\circ} / \frac{1}{2}$
- 2. What is the probability of selecting a blue car with manual transmission? $\frac{2}{8} = 25 \%$
- 3. What is the probability of selecting a car with a 4-cylinder engine and a manual transmission? $\frac{2}{8} = 26^{\circ} / . = \frac{1}{4}$
- 4. What is the probability of selecting a blue car with a 6-cylinder engine and an automatic transmission?

 \[\frac{1}{8} = 12.5 \frac{1}{2} \]

Bill, Raul, and Joe are in a bicycle race. If each boy has an equal chance of winning, find each probability. Draw a tree diagram to answer each question.

14. Joe wins the race.
$$\frac{2}{6} = \frac{1}{3} = 33^{\circ} /$$
.

Adam's class set up a lottery with two-digit numbers. The first digit is a number from 1 to 4. The second digit is a number from 3 to 8. Draw a tree diagram to answer each question.

17. What is the probability that 44 was the winning number?

