Problem Solving: Strategy
Logical Reasoning

Use logical reasoning to solve each problem.

1. An aquarium worker needs to fill a tank with 10 gallons of water. He has an 8-gallon pail and a 6-gallon pail. How can he use the pails to get exactly 10 gallons of water in the tank?

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2. Simon needs to put 9 cups of sea salt into a saltwater tank. He has a 10-cup container and a 7-cup container. How can Simon use the containers to measure 9 cups?

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3. The parrot house has 2 times as many birds as the toucan house. The toucan house has 3 more birds than the jay house. The jay house has 6 birds. How many birds do the other houses have?

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4. The parrots get food 20 minutes before the toucans. The toucans get food 15 minutes after the jays. The jays get food 30 minutes after Bird World opens. Bird World opens at 10:00 A.M. When does each kind of bird get food?

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Mixed Strategy Review
Solve. Use any strategy.

5. **Language Arts** Kenny writes a 740-word review of a play. The review needs to be cut so that it is 500 words. How many words have to be cut?

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Strategy: _____

6. There are 24 cars in the theater parking lot. There are 3 times as many 4-door cars as 2-door cars. How many of each kind of car are there?

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Strategy: _____

7. A bandstand is 40 feet wide by 80 feet long. It is built from wood planks that are 5 feet wide by 10 feet long. How many planks wide will the platform be? How many planks long?

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Strategy: _____

8. **Create a problem** which you could solve by using logical reasoning. Share it with others.

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