

Problem 1

Jaden spent the entire day at the beach this past weekend and rented a large umbrella from 11:30am - 4:30pm. It cost a total of \$35.75. How much did it cost to rent the umbrella per hour?

Ⓐ \$13.97/hr

Ⓒ \$8.94/hr

Ⓑ \$7.15/hr

Ⓓ \$40/hr

Questions to think about:

- What information may be relevant to the problem?
- Which word from the question, "How much did it cost per hour" helps us in determining which math operation we need to do?
- Which operation do we need to do to solve this problem?
- Can we eliminate any of the answer options? Why?

Topics to review

- [Intro to Pythagorean Theorem \(video\)](#)

Problem 2

Suppose that a right-triangle has 2 sides with lengths 3ft and 4ft. The missing side is longer than 4ft. What is the perimeter of the triangle?

(A) 25 ft

(C) 5 ft

(B) 3 ft

(D) 7 ft

Questions to think about:

- What information may be relevant to the problem?
- Which math operation do we need to do to find the perimeter?
- Do we need the length of the missing side? If so, how can we find it?
- Can we eliminate any of the answer options? Why?

Topics to review

- [Writing an inequality \(video\)](#)

Problem 3

Kayla is planning a business meeting for her company. She has a budget of \$975 for renting a meeting room and providing lunch. She expects 12 people to attend. The cost of renting the room is \$170. Create an inequality that shows how to find the amount, x , Kayla can spend on lunch for each person.

$$\textcircled{A} \ 12x + 170 \leq 975 \qquad \textcircled{C} \ 12 + x + 170 \leq 975$$

$$\textcircled{B} \ 12x + 170 \geq 975 \qquad \textcircled{D} \ 12x - 170 \leq 975$$

Questions to think about:

- What information may be relevant to the problem?
- What are the different inequality symbols?
- Do we need to solve for x in this problem?
- Can we eliminate any of the answer options? Why?

Problem 4

Dominic earns \$300 per week plus an 7.5% commission rate on all his sales. If Dominic sells \$3,976 worth of merchandise in one week, how much will his total earnings for the week be?

Ⓐ \$3282

Ⓒ \$298.20

Ⓑ \$598.20

Ⓓ \$450

Questions to think about:

- What information may be relevant to the problem?
- What does commission rate mean?
- What are the steps (math operations) for solving this problem?
- Can we eliminate any of the answer options? Why?