

Word Problems

ANSWER KEY

1.) Emily wants to plan a school trip for her class. She needs to calculate the total cost of the trip, including transportation and admission fees. The transportation company charges \$300 for a bus rental, plus \$10 per student. The admission fee for each student to the museum they'll visit is \$8. There are 25 students in her class. Emily wants to make sure each student pays an equal amount for the trip. How much should each student pay, and what will be the total cost of the trip?

Each student should pay \$30 for the trip, costing a total of \$750

2.) Sarah is planning a birthday party for her sister. She needs to order pizzas for the guests. Each pizza costs \$12, and she estimates that each guest will eat 2 slices. There will be 15 guests at the party. How many pizzas should Sarah order to ensure that each guest gets enough to eat, and what will be the total cost?

She should order 4 pizzas, costing a total of \$48

3.) A charity organization is collecting donations to buy school supplies for underprivileged children. Each backpack costs \$20, and each pencil case costs \$5. They need to buy 30 backpacks and 50 pencil cases. If they want to spend no more than \$1000 in total, how much more money do they need to raise?

They need an additional \$150

4.) Jackson is planning to paint a mural on a wall in his school. The wall measures 20 feet in length and 10 feet in height. Jackson wants to paint a sky at the top, which will cover 60% of the wall's surface, and a landscape at the bottom, which will cover 40% of the wall's surface. How much area will each part of the mural cover, and what will be the total area painted?

The sky will cover 120 square feet, and the landscape will cover 80 square feet. The total mural will cover 200 square feet.

5.) The school's basketball team is hosting a fundraiser to buy new uniforms. They plan to sell tickets for \$5 each. The gym can hold 200 people, and they expect 80% of the seats to be filled. If they want to raise at least \$800, how many tickets do they need to sell? **They need to sell at least 160 tickets.**

6.) Maria is planning a road trip with her family. They will drive 300 miles to their destination and back. Their car gets 25 miles per gallon of gas, and the current gas price is \$3.50 per gallon. If they also plan to spend \$50 on snacks for the trip, how much will the entire trip cost?

The trip will cost \$134

