

11. Mixed Application — Worksheet C

Name: _____ **Class:** _____ **Date:** _____

Before solving, identify the whole, choose a representation, and estimate the size of the answer.

1. A test has 100 marks. A student earns 84 marks. What percent is that?

2. A player scores 12 out of 100 shots. What percent is that?

3. A population grows to 125% of its original size. What does this mean?

4. Is 5% closer to 0%, 50%, or 100%? Explain.

5. Explain why 150% is greater than one whole.

6. A student says 80% of 50 is 80. Diagnose and correct the error.

7. A sale reduces a \$60 price by 25%. Estimate and find the reduction.

8. A class has 24 students. If 75% submit their work, how many students is that?

9. A runner completes 120% of the planned distance. The plan was 5 km. How far did the runner complete?

10. Create a percent benchmark table with five entries and use it to solve one new problem.

11. Compare 0.35, 35%, and . Which is greatest?

12. Create a real-world example of a percent greater than 100% and explain the whole.

13. **What matters and what doesn't:** A survey of 500 people, taken over 2 weeks by a team of 6 researchers, found that 68% preferred a new product design. How many people preferred it? Which details in this problem were not needed to answer it?

14. **Reconstruct the situation:** The statement "45% of 60 is 27" represents a real situation. Write a context for it, and explain what the 45%, the 60, and the 27 each mean.
