

## 11. Mixed Application — Worksheet C

**Name:** \_\_\_\_\_ **Class:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Before solving, identify the whole and choose the most useful form.

1. A survey reports approval. Give a decimal and percent form.

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2. A shirt is discounted by 25%. Explain the discount using a fraction and decimal.

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3. Which is greater: 0.45 or 44%? Show a comparison.

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4. A plant grows to 125% of its original height. Explain what this means and write two equivalent forms.

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5. A student converts to 0.38. Explain the rounding issue and give an exact decimal.

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6. A student says  $0.4 = 4\%$ . Diagnose and correct the error with a hundred grid or number line.

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7. Find two routes from to a percent and compare their efficiency.

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8. Create a context in which 250% is meaningful.

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9. A recipe uses cup, but a measuring tool displays decimals. Which form should be used and why?

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10. A report says 0.08 of the group participated. Write the participation rate as a percent and explain its size.

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11. **What matters and what doesn't:** A survey of 250 people, conducted over 3 days by 4 volunteers, found that 0.65 of respondents preferred option A. What percent preferred option A? Which details in this problem were not needed to answer it?

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12. **Reconstruct the situation:** The equations  $\frac{4}{10} = 0.4 = 40\%$  represent a real situation. Write a context this could describe, and explain what the value means in each of the three forms.

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