

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 17

## Multiplying Fractions by Whole Numbers

*Repeated addition of fractions, and working back to the whole.*

| × a whole<br>multiply the<br>top only | Example<br>$\frac{2}{3} \times 4$<br>$= \frac{8}{3} = 2 \frac{2}{3}$ | Unit fraction<br>$\frac{1}{4}$ of 20<br>$= 20 \div 4$ | Find the whole<br>part × bottom<br>÷ top |
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### Section A — Multiply

*Multiply the numerator.*

- $\frac{1}{2} \times 3 =$  \_\_\_\_\_
- $\frac{2}{3} \times 4 =$  \_\_\_\_\_
- $\frac{3}{5} \times 2 =$  \_\_\_\_\_
- $\frac{1}{4} \times 5 =$  \_\_\_\_\_
- $\frac{2}{7} \times 3 =$  \_\_\_\_\_
- $\frac{3}{8} \times 2 =$  \_\_\_\_\_

### Section B — Unit Fractions

*Divide to find the answer.*

- What is  $\frac{1}{4}$  of 20?
- What is  $\frac{1}{3}$  of 18?
- What is  $\frac{1}{5}$  of 35?
- What is  $\frac{1}{6}$  of 48?

### Section C — Find the Whole

*Work backwards.*

- $\frac{3}{4}$  of a number is 9. The number is \_\_\_\_\_
- $\frac{2}{3}$  of a number is 12. The number is \_\_\_\_\_
- $\frac{2}{5}$  of a number is 10. The number is \_\_\_\_\_
- $\frac{3}{7}$  of a number is 21. The number is \_\_\_\_\_

### Section D — Word Problems

*Show your thinking.*

- A recipe needs  $\frac{2}{3}$  cup of flour. How much for 3 batches?
- A rope is 12 m. You use  $\frac{3}{4}$  of it. How many metres?
- $\frac{2}{5}$  of a bag is 8 marbles. How many marbles in the bag?

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## Multiplying Fractions by Whole Numbers — Answer Key

*For marking. Accept equivalent correct forms.*

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### Section A — Multiply

1.  $1\frac{1}{2}$

2.  $2\frac{2}{3}$

3.  $1\frac{1}{5}$

4.  $1\frac{1}{4}$

5.  $\frac{6}{7}$

6.  $\frac{3}{4}$

### Section B — Unit Fractions

7. 5

8. 6

9. 7

10. 8

### Section C — Find the Whole

11. 12

12. 18

13. 25

14. 49

### Section D — Word Problems

15. 2 cups

16. 9 m

17. 20

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