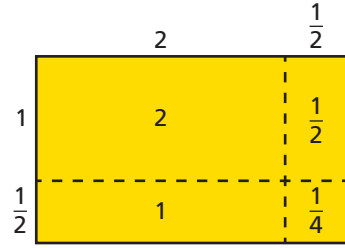# REVIEW: Multiplying Mixed Numbers

Name _____

Key Concept and Vocabulary

$2\frac{1}{2} \times 1\frac{1}{2} = \frac{5}{2} \times \frac{3}{2} = \frac{15}{4} = 3\frac{3}{4}$

Rewrite as improper fractions.

Multiply.

Visual Model

$\text{Area} = 2 + 1 + \frac{1}{2} + \frac{1}{4} = 3\frac{3}{4}$

Skill Examples

1. $3\frac{1}{2} \times 2\frac{1}{3} = \frac{7}{2} \times \frac{7}{3} = \frac{49}{6} = 8\frac{1}{6}$

2. $1\frac{3}{4} \times 4\frac{1}{2} = \frac{7}{4} \times \frac{9}{2} = \frac{63}{8} = 7\frac{7}{8}$

3. $2\frac{2}{5} \times 1\frac{2}{3} = \frac{12}{5} \times \frac{5}{3} = \frac{60}{15} = 4$

4. $1\frac{1}{2} \times 1\frac{1}{2} = \frac{3}{2} \times \frac{3}{2} = \frac{9}{4} = 2\frac{1}{4}$

Application Example

5. Your friend earns $7\frac{1}{2}$ dollars each hour she works. How much money will she earn after working $4\frac{1}{2}$ hours?

$7\frac{1}{2} \times 4\frac{1}{2} = \frac{15}{2} \times \frac{9}{2} = \frac{135}{4} = 33\frac{3}{4}$

∴ She will earn $33\frac{3}{4}$ dollars, or $33.75.

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Check your answers at BigIdeasMath.com.

Find the product. Write your answer in simplest form.

6. $2\frac{1}{3} \times 1\frac{1}{3} =$ _____

7. $4\frac{2}{3} \times 1\frac{1}{2} =$ _____

8. $1\frac{1}{2} \times 3 =$ _____

9. $5\frac{1}{6} \times \frac{1}{3} =$ _____

10. $\frac{3}{4} \times 3\frac{1}{2} =$ _____

11. $5 \times 4\frac{1}{2} =$ _____

12. $2\frac{1}{7} \times \frac{7}{15} =$ _____

13. $1\frac{3}{5} \times \frac{3}{8} =$ _____

14. $1\frac{1}{3} \times 1\frac{1}{3} =$ _____

15. $2\frac{2}{3} \times 3\frac{1}{3} =$ _____

16. $2\frac{1}{4} \times 8 =$ _____

17. $3\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} =$ _____

Find the area of the rectangle.

18.

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

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

Area = _____

19.

$2\frac{2}{3}$ cm

4 cm

Area = _____

20. RECIPE Rewrite the recipe so that each ingredient is one-third of the full recipe.

$2\frac{1}{2}$ cups flour

2 tsp baking powder

4 Tbsp butter

$\frac{1}{2}$ tsp salt

$\frac{3}{4}$ cup milk

_____ cup flour

_____ tsp baking powder

_____ Tbsp butter

_____ tsp salt

_____ cup milk