

REVIEW: Adding and Subtracting Mixed Numbers

Name _____

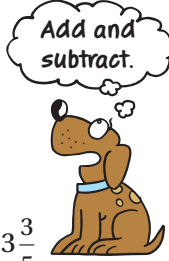
Key Concept and Vocabulary

$$2\frac{2}{3} + 1\frac{2}{3} = (2 + 1) + \left(\frac{2}{3} + \frac{2}{3}\right)$$

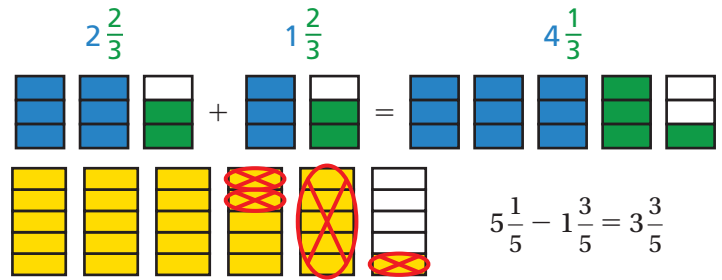
$$= 3\frac{4}{3} = 4\frac{1}{3}$$

$$5\frac{1}{5} - 1\frac{3}{5} = 4\frac{6}{5} - 1\frac{3}{5}$$

$$= (4 - 1) + \left(\frac{6}{5} - \frac{3}{5}\right) = 3\frac{3}{5}$$



Visual Models



Skill Examples

1. $5\frac{3}{5} + 1\frac{4}{5} = 6\frac{7}{5} = 7\frac{2}{5}$

2. $3\frac{1}{4} + 2\frac{1}{2} = 3\frac{1}{4} + 2\frac{2}{4} = 5\frac{3}{4}$

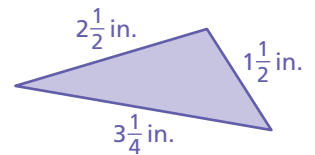
3. $4\frac{1}{3} - 1\frac{2}{3} = 3\frac{4}{3} - 1\frac{2}{3} = 2\frac{2}{3}$

4. $5\frac{5}{6} - 3\frac{1}{3} = 5\frac{5}{6} - 3\frac{2}{6} = 2\frac{3}{6} = 2\frac{1}{2}$

Application Example

5. Find the perimeter of the triangle.

$$2\frac{1}{2} + 1\frac{1}{2} + 3\frac{1}{4} = 7\frac{1}{4}$$



∴ The perimeter is $7\frac{1}{4}$ inches.

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Check your answers at BigIdeasMath.com.

Find the sum or difference. Write your answer in simplest form.

6. $4\frac{1}{4} + 2\frac{1}{4} = \underline{6\frac{1}{2}}$

7. $1\frac{2}{5} + 3\frac{1}{5} = \underline{4\frac{3}{5}}$

8. $5\frac{4}{5} + 3\frac{4}{5} = \underline{9\frac{3}{5}}$

9. $2\frac{2}{3} + 4\frac{1}{6} = \underline{6\frac{5}{6}}$

10. $7\frac{2}{3} + 3\frac{1}{3} = \underline{11}$

11. $5\frac{1}{2} + 5\frac{1}{2} = \underline{11}$

12. $8\frac{3}{5} - 5\frac{3}{5} = \underline{3}$

13. $4\frac{2}{3} - 1\frac{1}{3} = \underline{3\frac{1}{3}}$

14. $3\frac{1}{4} - 2\frac{1}{2} = \underline{\frac{3}{4}}$

15. $7\frac{1}{6} - 3\frac{1}{3} = \underline{3\frac{5}{6}}$

16. $1\frac{1}{4} - \frac{1}{2} = \underline{\frac{3}{4}}$

17. $6\frac{3}{4} - 6\frac{1}{2} = \underline{\frac{1}{4}}$

Find the perimeter of the triangle.

18. Perimeter = $\underline{10\frac{1}{8} \text{ in.}}$

19. Perimeter = $\underline{6\frac{2}{3} \text{ cm}}$

20. **HEIGHT** Sarah was $50\frac{1}{4}$ inches tall when she was 12 years old. She was $48\frac{1}{2}$ inches tall when she was 11 years old. How much did she grow during the year? $\underline{1\frac{3}{4} \text{ in.}}$

21. **PAINT** You use $2\frac{3}{4}$ cups of blue paint and $2\frac{3}{4}$ cups of yellow paint to make green paint. How many cups of green paint do you make? $\underline{5\frac{1}{2} \text{ cups}}$