

Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

Adding Mixed Numbers

Convert or combine mixed numbers, then simplify.

1. $1 \frac{1}{3} + 8 \frac{1}{3}$

2. $1 \frac{1}{3} + 8 \frac{3}{10}$

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

4. $2 \frac{3}{5} + 5 \frac{8}{10}$

5. $9 \frac{4}{10} + 2 \frac{8}{10}$

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

7. $5 \frac{2}{4} + 2 \frac{2}{5}$

8. $3 \frac{1}{2} + 1 \frac{3}{4}$

9. $6 \frac{4}{5} + 5 \frac{2}{5}$

10. $5 \frac{1}{3} + 4 \frac{9}{10}$

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Adding Mixed Numbers - Answer key

Convert or combine mixed numbers, then simplify.

1.

$$1 \frac{1}{3} + 8 \frac{1}{3}$$
$$= 9 \frac{2}{3}$$

$1 \frac{1}{3} = (1 \times 3 + 1) / 3 = 4/3$
 $8 \frac{1}{3} = (8 \times 3 + 1) / 3 = 25/3$
Use common denominator 3: $4/3 = 4/3$; $25/3 = 25/3$.
 $(4 + 25) / 3 = 29/3$
Already in lowest terms: $29/3$.

2.

$$1 \frac{1}{3} + 8 \frac{3}{10}$$
$$= 9 \frac{19}{30}$$

$1 \frac{1}{3} = (1 \times 3 + 1) / 3 = 4/3$
 $8 \frac{3}{10} = (8 \times 10 + 3) / 10 = 83/10$
Use common denominator 30: $4/3 = 40/30$; $83/10 = 249/30$.
 $(40 + 249) / 30 = 289/30$
Already in lowest terms: $289/30$.

3.

$$2 \frac{4}{5} + 7 \frac{1}{3}$$
$$= 10 \frac{2}{15}$$

$2 \frac{4}{5} = (2 \times 5 + 4) / 5 = 14/5$
 $7 \frac{1}{3} = (7 \times 3 + 1) / 3 = 22/3$
Use common denominator 15: $14/5 = 42/15$; $22/3 = 110/15$.
 $(42 + 110) / 15 = 152/15$
Already in lowest terms: $152/15$.

4.

$$2 \frac{3}{5} + 5 \frac{8}{10}$$
$$= 8 \frac{2}{5}$$

$2 \frac{3}{5} = (2 \times 5 + 3) / 5 = 13/5$
 $5 \frac{8}{10} = (5 \times 10 + 8) / 10 = 58/10$
Use common denominator 10: $13/5 = 26/10$; $58/10 = 58/10$.
 $(26 + 58) / 10 = 84/10$
Divide both parts by 2: $84/10 = 42/5$.

5.

$$9 \frac{4}{10} + 2 \frac{8}{10}$$
$$= 12 \frac{1}{5}$$

$9 \frac{4}{10} = (9 \times 10 + 4) / 10 = 94/10$
 $2 \frac{8}{10} = (2 \times 10 + 8) / 10 = 28/10$
Use common denominator 10: $94/10 = 94/10$; $28/10 = 28/10$.
 $(94 + 28) / 10 = 122/10$
Divide both parts by 2: $122/10 = 61/5$.

6.

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

$4 \frac{2}{3} = (4 \times 3 + 2) / 3 = 14/3$
 $1 \frac{1}{2} = (1 \times 2 + 1) / 2 = 3/2$
Use common denominator 6: $14/3 = 28/6$; $3/2 = 9/6$.
 $(28 + 9) / 6 = 37/6$
Already in lowest terms: $37/6$.

7.

$$5 \frac{2}{4} + 2 \frac{2}{5}$$
$$= 7 \frac{9}{10}$$

$5 \frac{2}{4} = (5 \times 4 + 2) / 4 = 22/4$
 $2 \frac{2}{5} = (2 \times 5 + 2) / 5 = 12/5$
Use common denominator 20: $22/4 = 110/20$; $12/5 = 48/20$.
 $(110 + 48) / 20 = 158/20$
Divide both parts by 2: $158/20 = 79/10$.

8.

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

$3 \frac{1}{2} = (3 \times 2 + 1) / 2 = 7/2$
 $1 \frac{3}{4} = (1 \times 4 + 3) / 4 = 7/4$
Use common denominator 4: $7/2 = 14/4$; $7/4 = 7/4$.
 $(14 + 7) / 4 = 21/4$
Already in lowest terms: $21/4$.

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9.

$$6 \frac{4}{5} + 5 \frac{2}{5} = 12 \frac{1}{5}$$

$$6 \frac{4}{5} = (6 \times 5 + 4) / 5 = 34/5$$

$$5 \frac{2}{5} = (5 \times 5 + 2) / 5 = 27/5$$

Use common denominator 5: $34/5 = 34/5$; $27/5 = 27/5$.

$$(34 + 27) / 5 = 61/5$$

Already in lowest terms: $61/5$.

10.

$$5 \frac{1}{3} + 4 \frac{9}{10} = 10 \frac{7}{30}$$

$$5 \frac{1}{3} = (5 \times 3 + 1) / 3 = 16/3$$

$$4 \frac{9}{10} = (4 \times 10 + 9) / 10 = 49/10$$

Use common denominator 30: $16/3 = 160/30$; $49/10 = 147/30$.

$$(160 + 147) / 30 = 307/30$$

Already in lowest terms: $307/30$.