RADIANT HEIGHTS ACADEMY

From Radiant Minds to Great Heights

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Student Name: _____

WEEKLY LEARNING BOOKLET

Level 3-4 Term 2 Week 3

THIS WEEK'S FOCUS

- ✔ Adding and Subtracting Fractions
- ✔ Mixed Numbers to Improper Fractions & Vice Versa
- ✔ Adding & Subtracting Visuals

FRACTIONS

TYPES OF FRACTIONS & CONVERSIONS

TYPES OF FRACTIONS

PROPER FRACTION

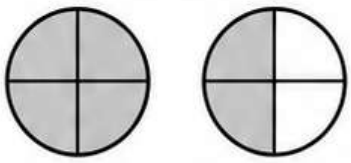
The numerator is smaller than the denominator.
The value is less than 1.

$\frac{3}{5}$

IMPROPER FRACTION

The numerator is greater than or equal to the denominator.
The value is 1 or more.

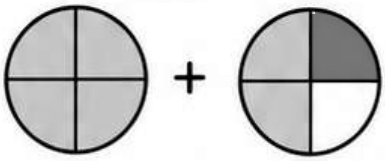
$\frac{7}{4}$



MIXED NUMBER

A whole number and a proper fraction together.

$1\frac{3}{4}$



MIXED NUMBER → IMPROPER FRACTION

Turn a mixed number into an improper fraction.

STEPS

1. Multiply the whole number by the denominator.
2. Add the numerator.
3. Keep the same denominator.

EXAMPLE

$$2\frac{3}{5} = \frac{(2 \times 5) + 3}{5} = \frac{13}{5}$$

- ② $2 \times 5 = 10$
- ② $10 + 3 = 13$
- ③ Keep the denominator the same.

$$2\frac{3}{5} = \frac{13}{5}$$

IMPROPER FRACTION → MIXED NUMBER

Turn an improper fraction into a mixed number.

STEPS

1. Ask: How many times does the denominator fit into the numerator?
2. Find the closest number without going over.
3. That number is your whole number.
4. Find the remainder (what is left over).
5. The remainder becomes your new numerator.
6. Keep the same denominator.

EXAMPLE

$\frac{13}{5}$

$$5\overline{)\,13}\quad 2,\ -10,\ 3$$

1. How many times does 5 fit into 13?
2. It fits 2 times ($2 \times 5 = 10$)
3. Whole number = 2
4. Remainder = 3
5. New numerator = 3
6. Denominator stays 5

$2\frac{3}{5}$

$$\frac{13}{5} = 2\frac{3}{5}$$

QUICK TIPS

- ★ If the numerator is smaller than the denominator → Proper Fraction
- ★ If the numerator is greater than or equal to the denominator → Improper Fraction
- ★ If it has a whole number and a fraction → Mixed Number

ADDING & SUBTRACTING FRACTIONS

☆ Notes, Methods & Examples ☆

ADDING FRACTIONS

1 ADDING FRACTIONS (Same Denominator)

STEPS

1. Make sure the denominators are the same.
2. Add the numerators.
3. Keep the denominator.

EXAMPLE

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

2 ADDING FRACTIONS (Different Denominators – Find Common Denominator)

STEPS

1. Find a common denominator.
2. Rewrite the fractions with equivalent fractions.
3. Add the numerators.
4. Keep the common denominator.

EXAMPLE

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

$$\frac{3}{6} + \frac{2}{6} = \frac{3+2}{6} = \frac{5}{6}$$

Common denominator of 2 and 3 is 6

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

3 ADDING MIXED NUMBERS

STEPS

1. Add the whole numbers.
2. Add the fractions (use either of the methods above).
3. Combine the answers. If the fraction is improper, convert it to a mixed number.

EXAMPLE

$$1\frac{1}{2} + 2\frac{1}{3}$$

Add whole numbers: $1 + 2 = 3$

Add fractions: $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

Combine: $3 + \frac{5}{6} = 3\frac{5}{6}$

SUBTRACTING FRACTIONS

1 SUBTRACTING FRACTIONS (Same Denominator)

STEPS

1. Make sure the denominators are the same.
2. Subtract the numerators.
3. Keep the denominator.

EXAMPLE

$$\frac{5}{7} - \frac{2}{7} = \frac{5-2}{7} = \frac{3}{7}$$

2 SUBTRACTING FRACTIONS (Different Denominators – Two Methods)

METHOD A
Use Common Denominator

1. Find a common denominator.
2. Rewrite the fractions with equivalent fractions.
3. Subtract the numerators.
4. Keep the common denominator.

EXAMPLE

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

$$\frac{9}{12} - \frac{2}{12} = \frac{9-2}{12} = \frac{7}{12}$$

Common denominator of 4 and 6 is 12

METHOD B
Convert to Improper Fractions

1. Convert both mixed numbers (to improper fractions).
2. Find a common denominator.
3. Subtract the numerators.
4. Keep the denominator.
5. Convert back to a mixed number (if needed).

EXAMPLE

$$2\frac{1}{2} - 1\frac{1}{4} \rightarrow \frac{5}{2} - \frac{5}{4}$$

$$\frac{10}{4} - \frac{5}{4} = \frac{5}{4} = 1\frac{1}{4}$$

QUICK TIPS

- ★ Always make sure the denominators are the same before you add or subtract.
- ★ Simplify your answer to its simplest form.
- ★ For mixed numbers: add or subtract the whole numbers and fractions separately (when adding).
- ★ Choose the method that is easiest for you!

MULTIPLYING & DIVIDING FRACTIONS

MULTIPLYING FRACTIONS

METHOD 1: STRAIGHT MULTIPLY

Steps:

1. Multiply the numerators.
2. Multiply the denominators.
3. Simplify your answer.

EXAMPLE:

$$\frac{2}{3} \times \frac{4}{5}$$

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

$$= \frac{8}{15}$$

Already in simplest form!

METHOD 2: CROSS SIMPLIFICATION (SMARTER WAY)

Steps:

1. Look diagonally for common factors (numerator ↔ denominator).
2. Divide BEFORE multiplying.
3. Then multiply across.

EXAMPLE:

$$\frac{2}{3} \times \frac{6}{5}$$

$6 \div 3 = 2$
$3 \div 3 = 1$

$$= \frac{2}{1} \times \frac{2}{5}$$

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

TIP:
Cross simplify only diagonally (numerator with denominator).
Do NOT simplify across the top or bottom.

DIVIDING FRACTIONS

RULE: KEEP, FLIP, MULTIPLY

Steps:

1. Keep the first fraction.
2. Flip the second fraction (reciprocal).
3. Multiply.
4. Simplify your answer.

EXAMPLE 1: STANDARD METHOD

$$\frac{2}{3} \div \frac{4}{5} \rightarrow \text{Flip second} \rightarrow \frac{2}{3} \times \frac{5}{4}$$

$$= \frac{2 \times 5}{3 \times 4} = \frac{10}{12} = \frac{5}{6}$$

Simplify divide by 2

EXAMPLE 2: WITH CROSS SIMPLIFICATION

$$\frac{2}{3} \div \frac{4}{5} \rightarrow \text{Flip second} \rightarrow \frac{2}{3} \times \frac{5}{4}$$

$2 \div 2 = 1$
$4 \div 2 = 2$

$$\frac{1 \times 5}{3 \times 2} = \frac{5}{6}$$

SIMPLIFYING FRACTIONS

What does "simplify" mean?
Writing a fraction in its smallest form.

Using **HCF** (Highest Common Factor)

EXAMPLE:

$\frac{12}{18}$ HCF of 12 and 18 = 6

$$= \frac{12 \div 6}{18 \div 6} = \frac{2}{3}$$

Student-Friendly Strategy

- If both numbers are even → divide by 2.
- Keep going until numbers are smaller.
- Then check for bigger factors.

EXAMPLE:

$$\frac{8}{12} \div \frac{8 \div 2}{12 \div 2} = \frac{4}{6} = \frac{4 \div 2}{6 \div 2} = \frac{2}{3}$$

(÷2) (÷2 again)

HCF & LCM

HCF
(HIGHEST COMMON FACTOR)

☆ The biggest number that divides both numbers exactly.
Used for simplifying fractions.

EXAMPLE:

Find the HCF of 12 and 18.

Factors of 12: 1, 2, 3, 4, (6), 12

Factors of 18: 1, 2, 3, (6), 9, 18

Common factors: 1, 2, 3, 6

HCF = 6

LCM
(LOWEST COMMON MULTIPLE)

☆ The smallest number that both numbers can go into.
Used for adding and subtracting fractions.

EXAMPLE:

Find the LCM of 3 and 4.

Multiples of 3: 3, 6, 9, (12), 15, ...

Multiples of 4: 4, 8, (12), 16, 20, ...

LCM = 12

KEY REMINDERS

- ★ Multiply → Top × Top, Bottom × Bottom.
- ★ Divide → Keep, Flip, Multiply.
- ★ Cross simplify only diagonally.
- ★ Always simplify your answer.
- ★ Simplify early if possible to make numbers smaller!

Adding & Subtracting Fractions

Name:

Solve each problem.

1) $\frac{7}{10} - \frac{1}{10} =$

2) $\frac{2}{3} + \frac{1}{3} =$

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

4) $\frac{7}{10} + \frac{5}{10} =$

5) $\frac{6}{8} - \frac{5}{8} =$

6) $\frac{2}{6} + \frac{2}{6} =$

7) $\frac{4}{5} - \frac{2}{5} =$

8) $\frac{4}{5} + \frac{4}{5} =$

9) $\frac{7}{8} - \frac{5}{8} =$

10) $\frac{4}{5} + \frac{1}{5} =$

11) $\frac{10}{12} - \frac{3}{12} =$

12) $\frac{2}{3} + \frac{1}{3} =$

13) $\frac{6}{8} - \frac{1}{8} =$

14) $\frac{5}{10} + \frac{3}{10} =$

15) $\frac{6}{12} - \frac{5}{12} =$

16) $\frac{9}{10} + \frac{1}{10} =$

17) $\frac{3}{4} - \frac{2}{4} =$

18) $\frac{11}{12} + \frac{5}{12} =$

19) $\frac{5}{8} - \frac{4}{8} =$

20) $\frac{2}{6} + \frac{1}{6} =$

Answers

1. _____
2. _____
3. _____
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18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Adding & Subtracting Fractions

Name:

Solve each problem.

1) $\frac{7}{8} - \frac{6}{8} =$

2) $\frac{1}{2} + \frac{1}{2} =$

3) $\frac{2}{3} - \frac{1}{3} =$

4) $\frac{4}{6} + \frac{2}{6} =$

5) $\frac{5}{6} - \frac{2}{6} =$

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

7) $\frac{4}{5} - \frac{1}{5} =$

8) $\frac{6}{10} + \frac{5}{10} =$

9) $\frac{11}{12} - \frac{2}{12} =$

10) $\frac{1}{3} + \frac{1}{3} =$

11) $\frac{10}{12} - \frac{6}{12} =$

12) $\frac{3}{10} + \frac{2}{10} =$

13) $\frac{4}{5} - \frac{2}{5} =$

14) $\frac{2}{3} + \frac{2}{3} =$

15) $\frac{5}{6} - \frac{2}{6} =$

16) $\frac{8}{12} + \frac{6}{12} =$

17) $\frac{4}{6} - \frac{3}{6} =$

18) $\frac{5}{6} + \frac{3}{6} =$

19) $\frac{4}{8} - \frac{1}{8} =$

20) $\frac{5}{6} + \frac{4}{6} =$

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1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Adding & Subtracting Fractions

Name:

Solve each problem.

1) $\frac{2}{8} - \frac{1}{8} =$

2) $\frac{4}{8} + \frac{4}{8} =$

3) $\frac{2}{3} - \frac{1}{3} =$

4) $\frac{7}{8} + \frac{4}{8} =$

5) $\frac{4}{5} - \frac{1}{5} =$

6) $\frac{2}{6} + \frac{2}{6} =$

7) $\frac{5}{6} - \frac{2}{6} =$

8) $\frac{2}{3} + \frac{2}{3} =$

9) $\frac{2}{4} - \frac{1}{4} =$

10) $\frac{9}{10} + \frac{4}{10} =$

11) $\frac{4}{10} - \frac{3}{10} =$

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19) $\frac{7}{10} - \frac{6}{10} =$

20) $\frac{1}{3} + \frac{1}{3} =$

Answers

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1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Adding Fractions Numeric and Visual

Name:

Determine which letter best represents the sum.

1) $\frac{1}{6} + \frac{4}{6}$

2) $\frac{3}{5} + \frac{3}{5}$

3) $\frac{5}{10} + \frac{2}{10}$

4) $\frac{4}{8} + \frac{5}{8}$

5) $\frac{1}{8} + \frac{5}{8}$

6) $\frac{3}{10} + \frac{5}{10}$

7) $\frac{1}{3} + \frac{2}{3}$

8) $\frac{4}{8} + \frac{4}{8}$

9) $\frac{8}{12} + \frac{10}{12}$

10) $\frac{1}{8} + \frac{6}{8}$

11) $\frac{6}{10} + \frac{9}{10}$

12) $\frac{2}{5} + \frac{3}{5}$

13) $\frac{2}{5} + \frac{2}{5}$

14) $\frac{1}{2} + \frac{1}{2}$

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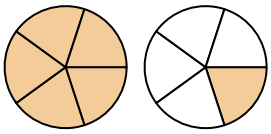

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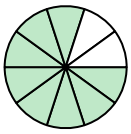

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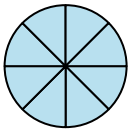

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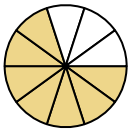

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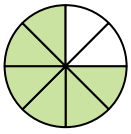

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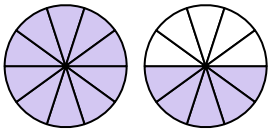

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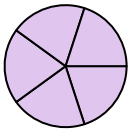

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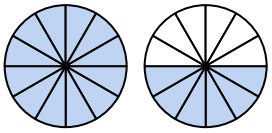

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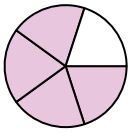

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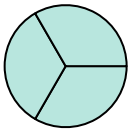

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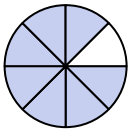

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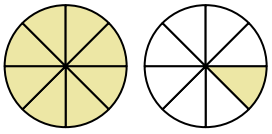

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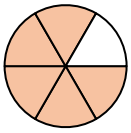

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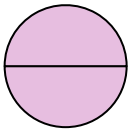

Answers

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5. _____
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8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____

1-10	93	86	79	71	64	57	50	43	36	29
11-14	21	14	7	0						

Adding Fractions Numeric and Visual

Name:

Determine which letter best represents the sum.

1) $\frac{2}{3} + \frac{1}{3}$

2) $\frac{2}{10} + \frac{7}{10}$

3) $\frac{4}{8} + \frac{1}{8}$

4) $\frac{3}{5} + \frac{2}{5}$

5) $\frac{3}{4} + \frac{2}{4}$

6) $\frac{5}{6} + \frac{4}{6}$

7) $\frac{4}{6} + \frac{2}{6}$

8) $\frac{1}{2} + \frac{1}{2}$

9) $\frac{4}{12} + \frac{8}{12}$

10) $\frac{1}{4} + \frac{3}{4}$

11) $\frac{2}{3} + \frac{2}{3}$

12) $\frac{1}{5} + \frac{1}{5}$

13) $\frac{3}{6} + \frac{1}{6}$

14) $\frac{5}{12} + \frac{1}{12}$

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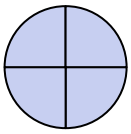

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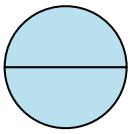

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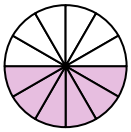

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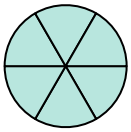

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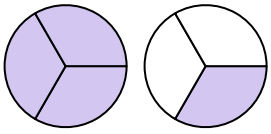

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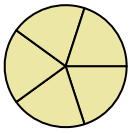

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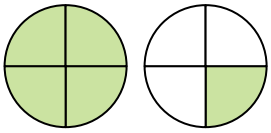
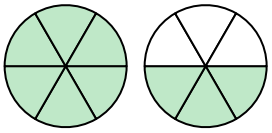
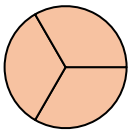


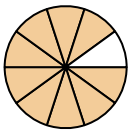
H.



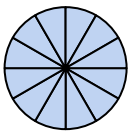
I.



J.

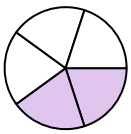


K.

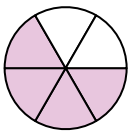


L.

M.



N.



Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____

1-10	93	86	79	71	64	57	50	43	36	29
11-14	21	14	7	0						

Adding Fractions Numeric and Visual

Name:

Determine which letter best represents the sum.

1) $\frac{2}{4} + \frac{3}{4}$

2) $\frac{4}{10} + \frac{4}{10}$

3) $\frac{1}{2} + \frac{1}{2}$

4) $\frac{3}{4} + \frac{3}{4}$

5) $\frac{3}{12} + \frac{5}{12}$

6) $\frac{2}{4} + \frac{1}{4}$

7) $\frac{2}{4} + \frac{2}{4}$

8) $\frac{2}{5} + \frac{2}{5}$

9) $\frac{4}{5} + \frac{2}{5}$

10) $\frac{1}{6} + \frac{2}{6}$

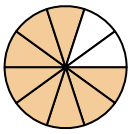
11) $\frac{6}{10} + \frac{3}{10}$

12) $\frac{1}{3} + \frac{2}{3}$

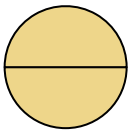
13) $\frac{1}{12} + \frac{3}{12}$

14) $\frac{1}{6} + \frac{5}{6}$

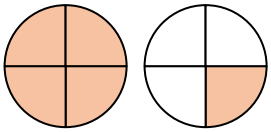
A.



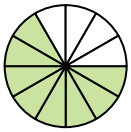
B.



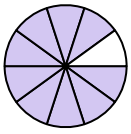
C.



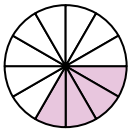
D.



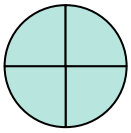
E.



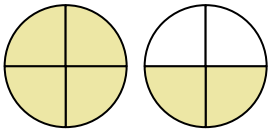
F.



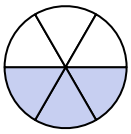
G.



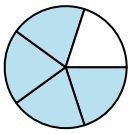
H.



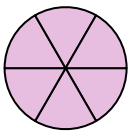
I.



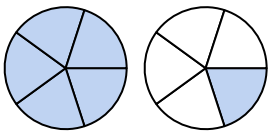
J.



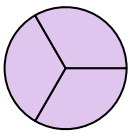
K.



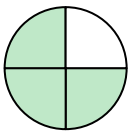
L.



M.



N.



Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____

1-10	93	86	79	71	64	57	50	43	36	29
11-14	21	14	7	0						

Adding & Subtracting Fractions

Name:

Solve each problem.

1) $\frac{4}{5} - \frac{1}{2} =$

2) $\frac{5}{6} + \frac{3}{10} =$

3) $\frac{4}{8} - \frac{2}{10} =$

4) $\frac{3}{4} + \frac{7}{10} =$

5) $\frac{1}{4} - \frac{2}{10} =$

6) $\frac{3}{5} + \frac{7}{12} =$

7) $\frac{3}{8} - \frac{1}{10} =$

8) $\frac{5}{6} + \frac{3}{5} =$

9) $\frac{1}{2} - \frac{1}{6} =$

10) $\frac{3}{5} + \frac{1}{2} =$

11) $\frac{9}{10} - \frac{3}{4} =$

12) $\frac{4}{8} + \frac{1}{10} =$

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Adding & Subtracting Fractions

Name:

Solve each problem.

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

2) $\frac{9}{12} + \frac{1}{4} =$

3) $\frac{3}{5} - \frac{3}{6} =$

4) $\frac{3}{4} + \frac{4}{12} =$

5) $\frac{4}{5} - \frac{4}{10} =$

6) $\frac{2}{3} + \frac{2}{5} =$

7) $\frac{1}{2} - \frac{1}{8} =$

8) $\frac{4}{6} + \frac{1}{2} =$

9) $\frac{4}{6} - \frac{3}{12} =$

10) $\frac{3}{8} + \frac{4}{12} =$

11) $\frac{3}{4} - \frac{4}{6} =$

12) $\frac{1}{5} + \frac{2}{12} =$

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Adding & Subtracting Fractions

Name:

Solve each problem.

1) $\frac{5}{6} - \frac{1}{5} =$

2) $\frac{5}{8} + \frac{1}{3} =$

3) $\frac{1}{2} - \frac{1}{10} =$

4) $\frac{9}{12} + \frac{4}{6} =$

5) $\frac{1}{3} - \frac{2}{10} =$

6) $\frac{1}{2} + \frac{1}{8} =$

7) $\frac{3}{4} - \frac{1}{2} =$

8) $\frac{3}{4} + \frac{8}{12} =$

9) $\frac{2}{12} - \frac{1}{6} =$

10) $\frac{2}{8} + \frac{1}{6} =$

11) $\frac{2}{4} - \frac{3}{6} =$

12) $\frac{7}{10} + \frac{1}{3} =$

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Mixed Number Fraction to Improper Fraction

Name:

Convert the mixed number fraction to improper fraction.

$3\ \frac{2}{5}$

First multiply the denominator by the whole number.

$5 \times 3 = 15$

$3\ \frac{17}{5}$

Next add your answer from step 1 to your numerator.

$\frac{17}{5}$

Finally drop the whole number. Now you have your improper fraction.

Ex) $8\frac{1}{3} = \frac{25}{3}$

1) $2\frac{4}{10} =$

2) $6\frac{4}{9} =$

3) $10\frac{1}{2} =$

4) $9\frac{5}{8} =$

5) $2\frac{4}{8} =$

6) $9\frac{4}{6} =$

7) $3\frac{4}{6} =$

8) $1\frac{1}{2} =$

9) $6\frac{6}{8} =$

10) $4\frac{1}{3} =$

11) $10\frac{4}{7} =$

12) $3\frac{2}{4} =$

13) $3\frac{7}{8} =$

14) $7\frac{3}{4} =$

15) $10\frac{2}{9} =$

16) $2\frac{4}{6} =$

17) $3\frac{6}{9} =$

Answers

Ex. $\frac{25}{3}$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Mixed Number Fraction to Improper Fraction

Name:

Convert the mixed number fraction to improper fraction.

$3\ \frac{2}{5}$

First multiply the denominator by the whole number.

$5 \times 3 = 15$

$3\ \frac{17}{5}$

Next add your answer from step 1 to your numerator.

$\frac{17}{5}$

Finally drop the whole number. Now you have your improper fraction.

Ex) $7\frac{9}{10} = \frac{79}{10}$

1) $2\frac{1}{2} =$

2) $9\frac{3}{8} =$

3) $7\frac{3}{8} =$

4) $6\frac{1}{4} =$

5) $9\frac{3}{6} =$

6) $5\frac{2}{6} =$

7) $8\frac{1}{6} =$

8) $2\frac{3}{10} =$

9) $1\frac{3}{5} =$

10) $1\frac{1}{4} =$

11) $1\frac{1}{5} =$

12) $6\frac{4}{9} =$

13) $7\frac{2}{4} =$

14) $2\frac{1}{6} =$

15) $3\frac{1}{4} =$

16) $1\frac{1}{2} =$

17) $3\frac{2}{3} =$

Answers

Ex. $\frac{79}{10}$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Mixed Number Fraction to Improper Fraction

Name:

Convert the mixed number fraction to improper fraction.

$3\ \frac{2}{5}$

First multiply the denominator by the whole number.

$5 \times 3 = 15$

$3\ \frac{17}{5}$

Next add your answer from step 1 to your numerator.

$\frac{17}{5}$

Finally drop the whole number. Now you have your improper fraction.

Ex) $10\frac{1}{2} = \frac{21}{2}$

1) $7\frac{3}{7} =$

2) $1\frac{4}{6} =$

3) $2\frac{3}{6} =$

4) $8\frac{9}{10} =$

5) $3\frac{1}{6} =$

6) $5\frac{6}{8} =$

7) $3\frac{3}{4} =$

8) $5\frac{5}{6} =$

9) $6\frac{8}{9} =$

10) $10\frac{1}{6} =$

11) $5\frac{2}{3} =$

12) $3\frac{2}{3} =$

13) $9\frac{1}{5} =$

14) $1\frac{2}{4} =$

15) $10\frac{5}{7} =$

16) $1\frac{2}{3} =$

17) $6\frac{1}{5} =$

Answers

Ex. $\frac{21}{2}$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Mixed Number Fraction to Improper Fraction

Name:

Convert the mixed number fraction to improper fraction.

$3\ \frac{2}{5}$

First multiply the denominator by the whole number.

$5 \times 3 = 15$

$3\ \frac{17}{5}$

Next add your answer from step 1 to your numerator.

$\frac{17}{5}$

Finally drop the whole number. Now you have your improper fraction.

Ex) $8\frac{2}{5} = \frac{42}{5}$

1) $8\frac{1}{4} =$

2) $2\frac{5}{6} =$

3) $3\frac{1}{7} =$

4) $3\frac{7}{10} =$

5) $7\frac{3}{7} =$

6) $9\frac{1}{3} =$

7) $8\frac{3}{6} =$

8) $9\frac{6}{10} =$

9) $10\frac{1}{9} =$

10) $4\frac{3}{4} =$

11) $8\frac{2}{3} =$

12) $6\frac{5}{8} =$

13) $6\frac{1}{2} =$

14) $7\frac{1}{4} =$

15) $6\frac{4}{6} =$

16) $10\frac{1}{2} =$

17) $8\frac{5}{6} =$

Answers

Ex. $\frac{42}{5}$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Improper Fraction to Mixed Number Fraction

Name:

Convert the improper fraction to a mixed number fraction.

$\frac{17}{5}$
First divide the numerator by the denominator.
17 ÷ 5 = 3 r2

$3\ \frac{2}{5}$
The 3 is your whole number. While the remainder become the numerator.

$3\ \frac{2}{5}$
Your denominator stays the same. And now you have your mixed number.

Ex) $\frac{25}{3} = 8\frac{1}{3}$

1) $\frac{24}{10} =$

2) $\frac{58}{9} =$

3) $\frac{21}{2} =$

4) $\frac{77}{8} =$

5) $\frac{20}{8} =$

6) $\frac{58}{6} =$

7) $\frac{22}{6} =$

8) $\frac{3}{2} =$

9) $\frac{54}{8} =$

10) $\frac{13}{3} =$

11) $\frac{74}{7} =$

12) $\frac{14}{4} =$

13) $\frac{31}{8} =$

14) $\frac{31}{4} =$

15) $\frac{92}{9} =$

16) $\frac{16}{6} =$

17) $\frac{33}{9} =$

Answers

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

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Improper Fraction to Mixed Number Fraction

Name:

Convert the improper fraction to a mixed number fraction.

$\frac{17}{5}$	$3\ \frac{2}{5}$	$3\ \frac{2}{5}$
First divide the numerator by the denominator. 17 ÷ 5 = 3 r2	The 3 is your whole number. While the remainder become the numerator.	Your denominator stays the same. And now you have your mixed number.

Ex) $\frac{79}{10} = 7\frac{9}{10}$

1) $\frac{5}{2} =$

2) $\frac{75}{8} =$

3) $\frac{59}{8} =$

4) $\frac{25}{4} =$

5) $\frac{57}{6} =$

6) $\frac{32}{6} =$

7) $\frac{49}{6} =$

8) $\frac{23}{10} =$

9) $\frac{8}{5} =$

10) $\frac{5}{4} =$

11) $\frac{6}{5} =$

12) $\frac{58}{9} =$

13) $\frac{30}{4} =$

14) $\frac{13}{6} =$

15) $\frac{13}{4} =$

16) $\frac{3}{2} =$

17) $\frac{11}{3} =$

Answers

Ex. $7\frac{9}{10}$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Improper Fraction to Mixed Number Fraction

Name:

Convert the improper fraction to a mixed number fraction.

$\frac{17}{5}$	$3\ \frac{2}{5}$	$3\ \frac{2}{5}$
First divide the numerator by the denominator. 17 ÷ 5 = 3 r2	The 3 is your whole number. While the remainder become the numerator.	Your denominator stays the same. And now you have your mixed number.

Ex) $\frac{21}{2} = 10\frac{1}{2}$

1) $\frac{52}{7} =$

2) $\frac{10}{6} =$

3) $\frac{15}{6} =$

4) $\frac{89}{10} =$

5) $\frac{19}{6} =$

6) $\frac{46}{8} =$

7) $\frac{15}{4} =$

8) $\frac{35}{6} =$

9) $\frac{62}{9} =$

10) $\frac{61}{6} =$

11) $\frac{17}{3} =$

12) $\frac{11}{3} =$

13) $\frac{46}{5} =$

14) $\frac{6}{4} =$

15) $\frac{75}{7} =$

16) $\frac{5}{3} =$

17) $\frac{31}{5} =$

Answers

Ex. $10\frac{1}{2}$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Improper Fraction to Mixed Number Fraction

Name:

Convert the improper fraction to a mixed number fraction.

$\frac{17}{5}$	$3\ \frac{2}{5}$	$3\ \frac{2}{5}$
First divide the numerator by the denominator. 17 ÷ 5 = 3 r2	The 3 is your whole number. While the remainder become the numerator.	Your denominator stays the same. And now you have your mixed number.

Ex) $\frac{42}{5} = 8\frac{2}{5}$

1) $\frac{33}{4} =$

2) $\frac{17}{6} =$

3) $\frac{22}{7} =$

4) $\frac{37}{10} =$

5) $\frac{52}{7} =$

6) $\frac{28}{3} =$

7) $\frac{51}{6} =$

8) $\frac{96}{10} =$

9) $\frac{91}{9} =$

10) $\frac{19}{4} =$

11) $\frac{26}{3} =$

12) $\frac{53}{8} =$

13) $\frac{13}{2} =$

14) $\frac{29}{4} =$

15) $\frac{40}{6} =$

16) $\frac{21}{2} =$

17) $\frac{53}{6} =$

Answers

Ex. $8\frac{2}{5}$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

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