RADIANT HEIGHTS ACADEMY

From Radiant Minds to Great Heights

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Student Name: _____

WEEKLY LEARNING BOOKLET

Level 3-4 Term 2 Week 4

THIS WEEK'S FOCUS

- ✔ Adding and Subtracting Fractions
- ✔ Word Based Problems
- ✔ Mixed to Improper Fractions and Back

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) $9\frac{3}{5} = \frac{48}{5}$

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

2) $5\frac{3}{9} =$

3) $9\frac{4}{5} =$

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

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

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

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

8) $6\frac{4}{9} =$

9) $2\frac{7}{8} =$

10) $5\frac{6}{9} =$

11) $10\frac{3}{8} =$

12) $10\frac{3}{5} =$

13) $8\frac{3}{4} =$

14) $5\frac{3}{4} =$

15) $9\frac{1}{6} =$

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

17) $3\frac{3}{7} =$

Answers

Ex. $\frac{48}{5}$

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

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 × 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) $7\frac{2}{10} = \frac{72}{10}$

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

2) $5\frac{5}{9} =$

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

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

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

6) $10\frac{4}{5} =$

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

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

9) $4\frac{5}{6} =$

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

11) $6\frac{1}{3} =$

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

13) $7\frac{2}{5} =$

14) $6\frac{7}{10} =$

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

16) $8\frac{1}{2} =$

17) $2\frac{4}{7} =$

Answers

Ex. $\frac{72}{10}$

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

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

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

3) $4\frac{6}{8} =$

4) $4\frac{3}{5} =$

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

6) $4\frac{1}{9} =$

7) $4\frac{5}{9} =$

8) $10\frac{1}{10} =$

9) $7\frac{1}{3} =$

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

11) $1\frac{1}{2} =$

12) $7\frac{1}{7} =$

13) $7\frac{3}{4} =$

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

15) $1\frac{1}{6} =$

16) $8\frac{2}{8} =$

17) $9\frac{1}{4} =$

Answers

Ex. $\frac{8}{6}$

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) $\frac{48}{5} = 9\frac{3}{5}$

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

2) $\frac{48}{9} =$

3) $\frac{49}{5} =$

4) $\frac{19}{7} =$

5) $\frac{32}{3} =$

6) $\frac{38}{9} =$

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

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

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

10) $\frac{51}{9} =$

11) $\frac{83}{8} =$

12) $\frac{53}{5} =$

13) $\frac{35}{4} =$

14) $\frac{23}{4} =$

15) $\frac{55}{6} =$

16) $\frac{26}{4} =$

17) $\frac{24}{7} =$

Answers

Ex. $9\frac{3}{5}$

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.

$\frac{17}{5}$	$3\ \frac{2}{5}$	$3\ \frac{2}{5}$
First divide the numerator by the denominator. $17 \div 5 = 3$ 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) $\frac{72}{10} = 7\frac{2}{10}$

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

2) $\frac{50}{9} =$

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

4) $\frac{39}{7} =$

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

6) $\frac{54}{5} =$

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

8) $\frac{29}{3} =$

9) $\frac{29}{6} =$

10) $\frac{39}{9} =$

11) $\frac{19}{3} =$

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

13) $\frac{37}{5} =$

14) $\frac{67}{10} =$

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

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

17) $\frac{18}{7} =$

Answers

Ex. $7\frac{2}{10}$

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

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

2) $\frac{38}{6} =$

3) $\frac{38}{8} =$

4) $\frac{23}{5} =$

5) $\frac{41}{4} =$

6) $\frac{37}{9} =$

7) $\frac{41}{9} =$

8) $\frac{101}{10} =$

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

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

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

12) $\frac{50}{7} =$

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

14) $\frac{25}{7} =$

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

16) $\frac{66}{8} =$

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

Answers

Ex. $1\frac{2}{6}$

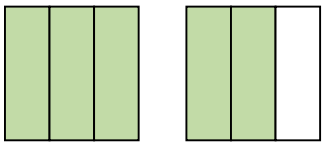
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

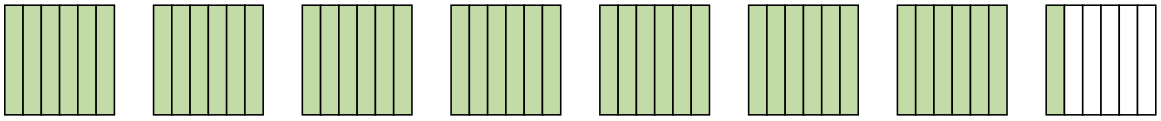
1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

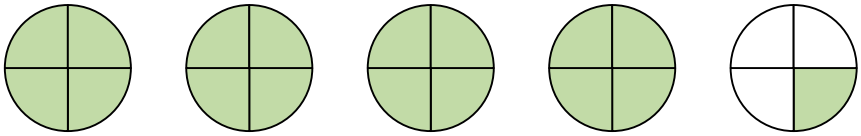
Improper and Mixed Fractions Visual

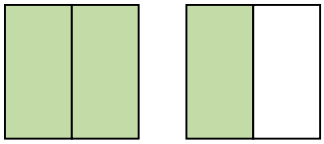
Name:

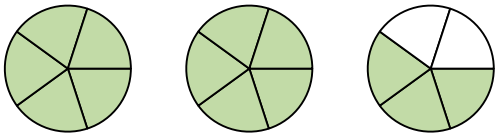
Write each amount as a mixed number.

1) 

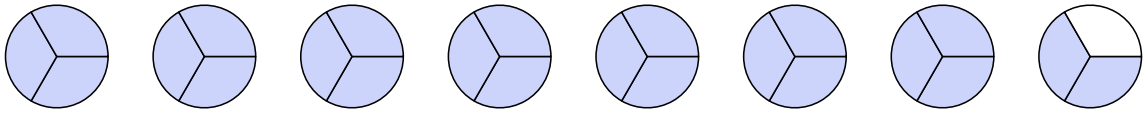
2) 

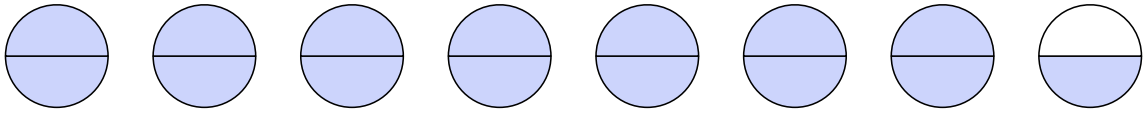
3) 

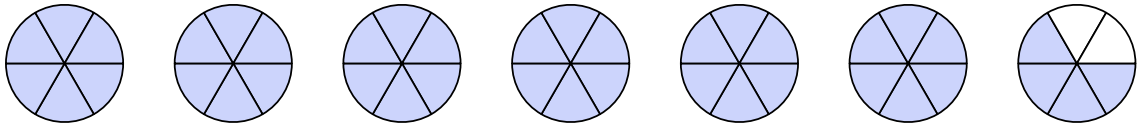
4) 

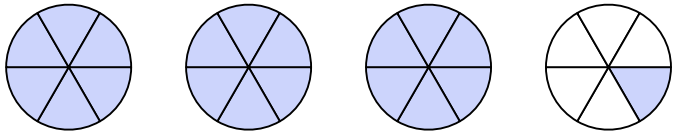
5) 

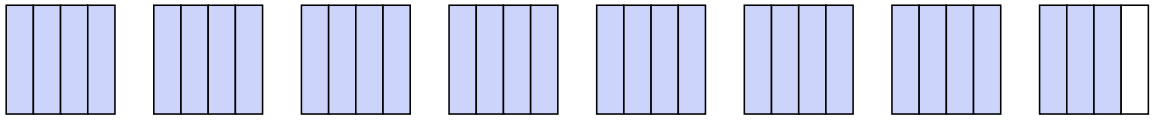
Write each amount as an improper fraction.

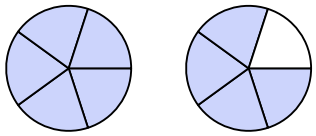
6) 

7) 

8) 

9) 

10) 

11) 

Answers

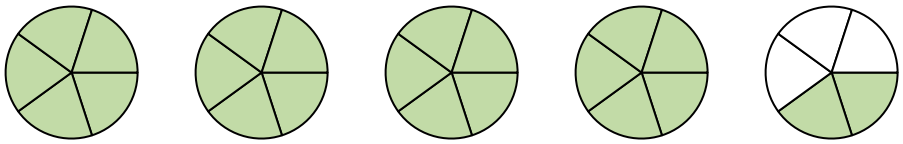
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____

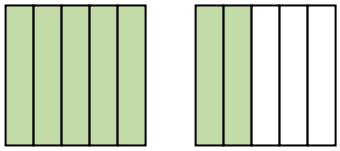
1-10	91	82	73	64	55	45	36	27	18	9
11	0									

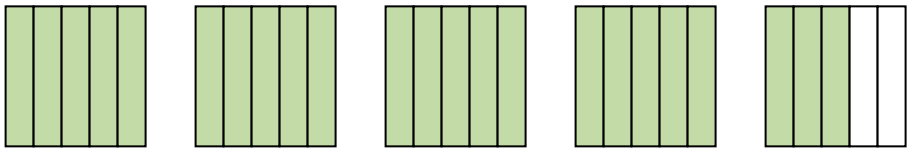
Improper and Mixed Fractions Visual

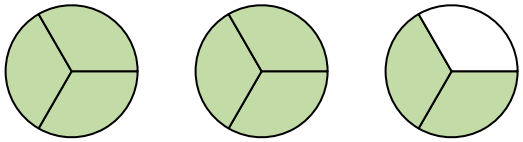
Name:

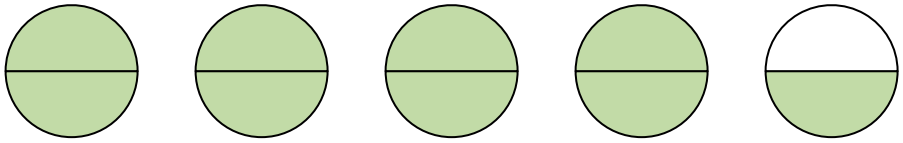
Write each amount as a mixed number.

1) 

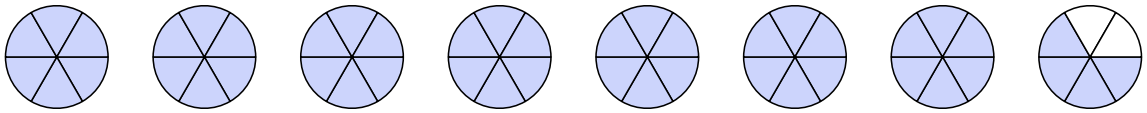
2) 

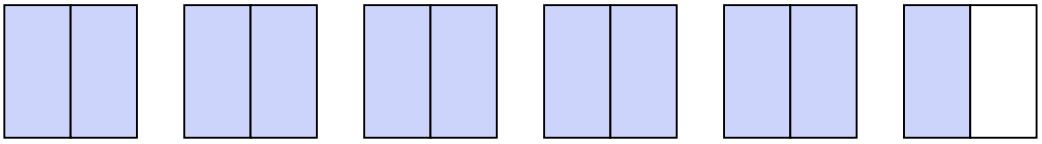
3) 

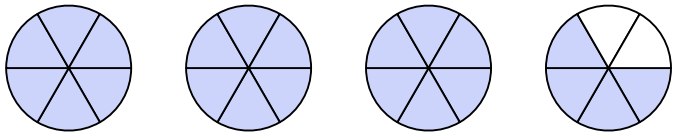
4) 

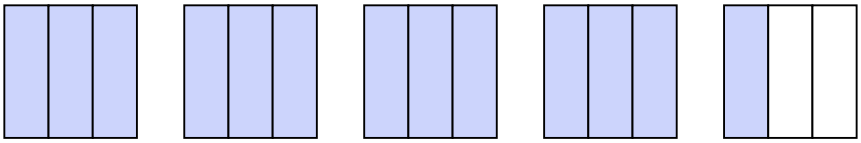
5) 

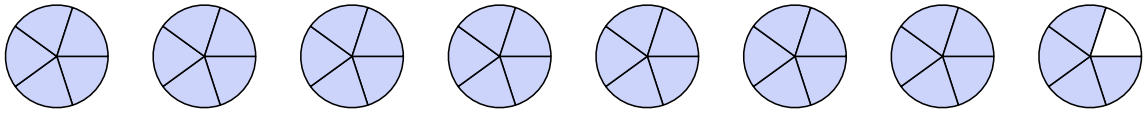
Write each amount as an improper fraction.

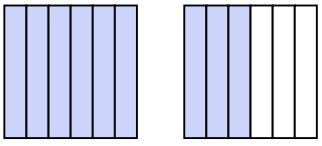
6) 

7) 

8) 

9) 

10) 

11) 

Answers

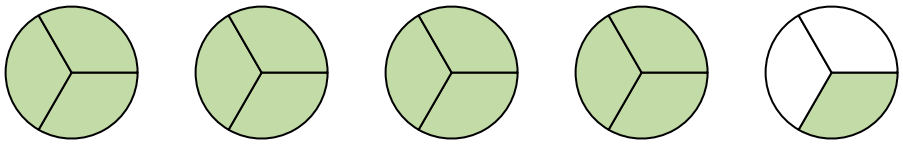
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____

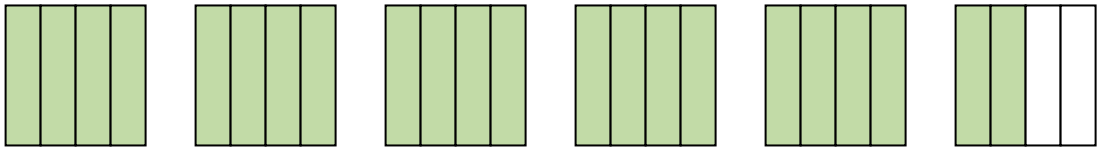
1-10	91	82	73	64	55	45	36	27	18	9
11	0									

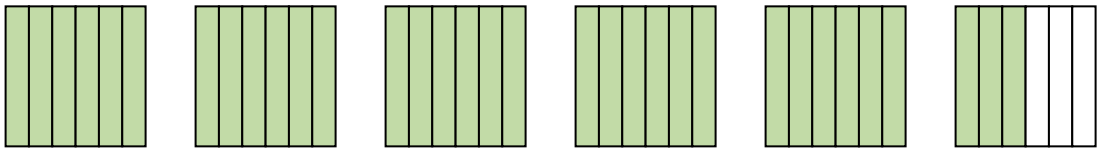
Improper and Mixed Fractions Visual

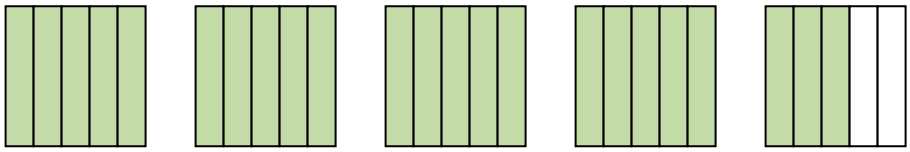
Name:

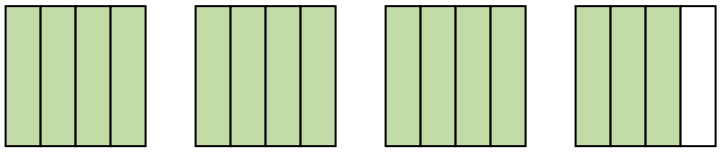
Write each amount as a mixed number.

1) 

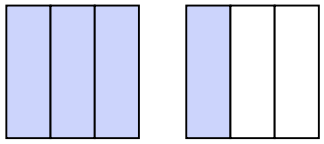
2) 

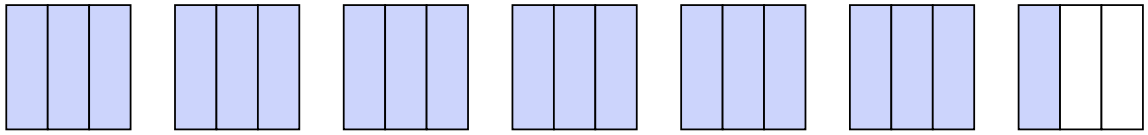
3) 

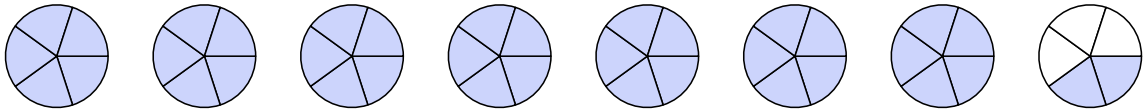
4) 

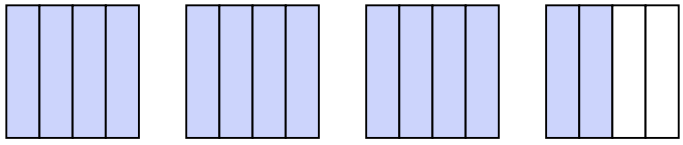
5) 

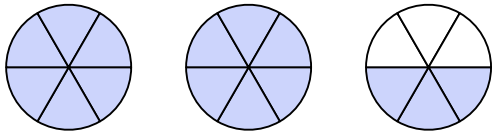
Write each amount as an improper fraction.

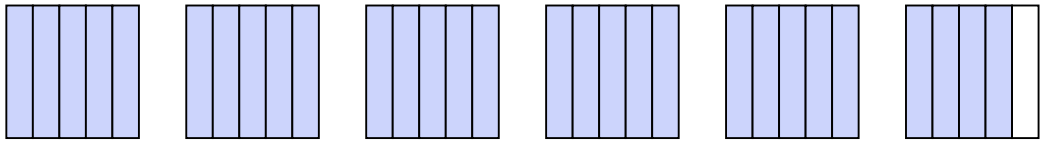
6) 

7) 

8) 

9) 

10) 

11) 

Answers

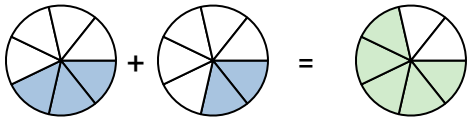
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____

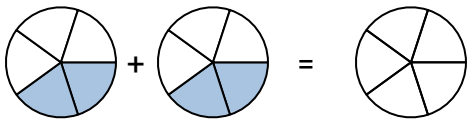
1-10	91	82	73	64	55	45	36	27	18	9
11	0									

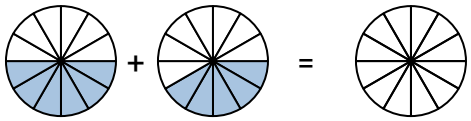
Adding Fractions (visual)

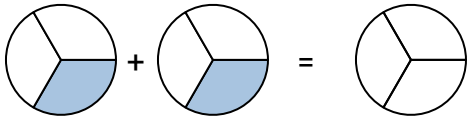
Name:

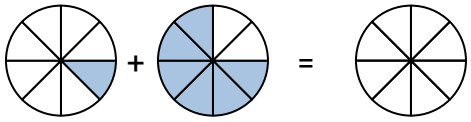
Shade in the fraction to solve the problem.

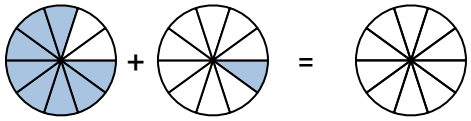
Ex) 

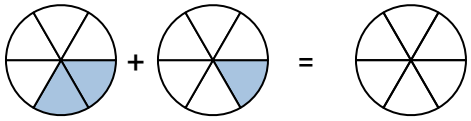
1) 

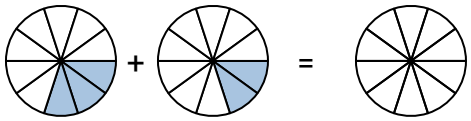
2) 

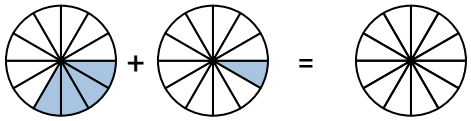
3) 

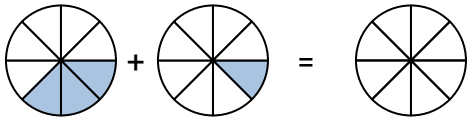
4) 

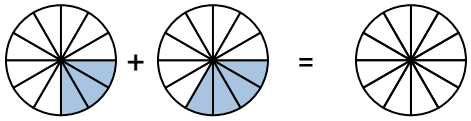
5) 

6) 

7) 

8) 

9) 

10) 

Answers

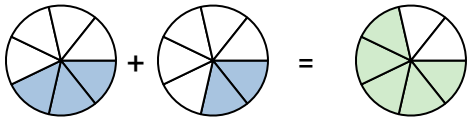
Ex.	3/7	2/7	5/7
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

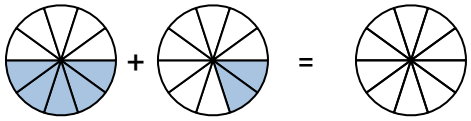
1-10	90	80	70	60	50	40	30	20	10	0

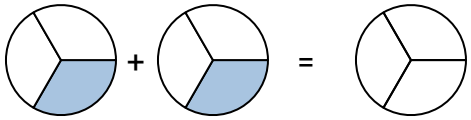
Adding Fractions (visual)

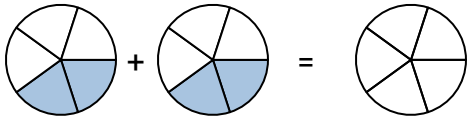
Name:

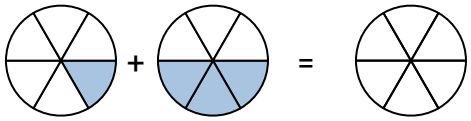
Shade in the fraction to solve the problem.

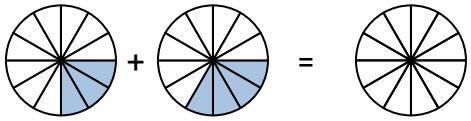
Ex) 

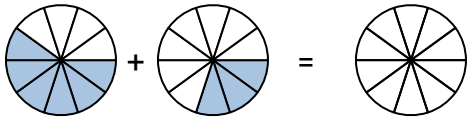
1) 

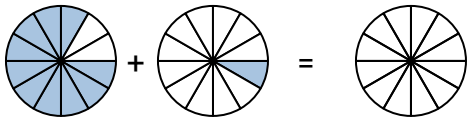
2) 

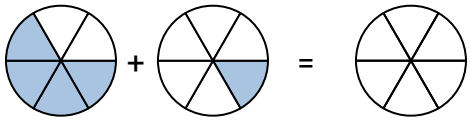
3) 

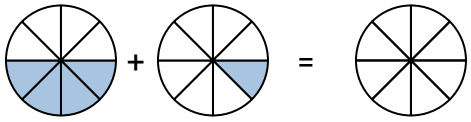
4) 

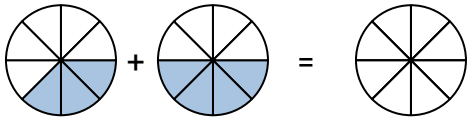
5) 

6) 

7) 

8) 

9) 

10) 

Answers

Ex. 3/7 2/7 5/7

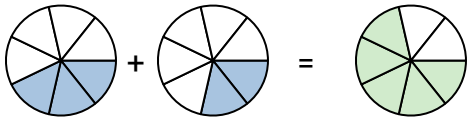
1. _____ _____ _____
2. _____ _____ _____
3. _____ _____ _____
4. _____ _____ _____
5. _____ _____ _____
6. _____ _____ _____
7. _____ _____ _____
8. _____ _____ _____
9. _____ _____ _____
10. _____ _____ _____

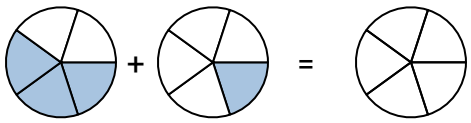
1-10	90	80	70	60	50	40	30	20	10	0

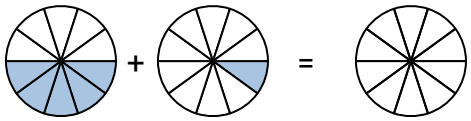
Adding Fractions (visual)

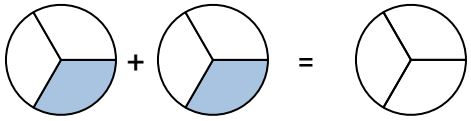
Name:

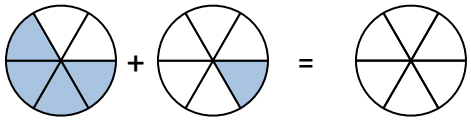
Shade in the fraction to solve the problem.

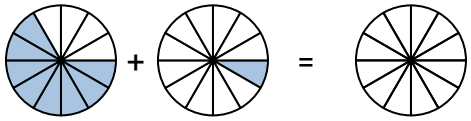
Ex) 

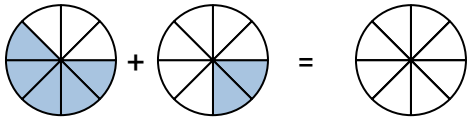
1) 

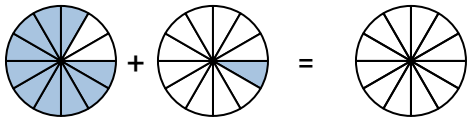
2) 

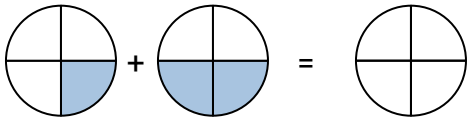
3) 

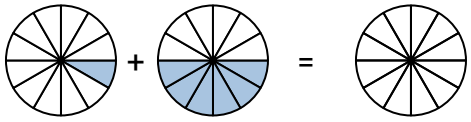
4) 

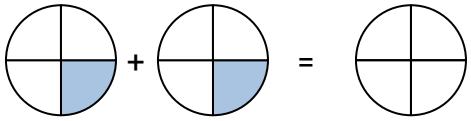
5) 

6) 

7) 

8) 

9) 

10) 

Answers

Ex.	3/7	2/7	5/7
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

1-10	90	80	70	60	50	40	30	20	10	0

Adding & Subtracting Fractions

Name:

Solve each problem.

1) $\frac{7}{10} - \frac{2}{3} =$

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

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

4) $\frac{7}{10} + \frac{1}{2} =$

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

6) $\frac{8}{12} + \frac{2}{3} =$

7) $\frac{3}{6} - \frac{1}{3} =$

8) $\frac{3}{6} + \frac{1}{2} =$

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

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

11) $\frac{6}{8} - \frac{2}{5} =$

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

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) $\frac{7}{8} - \frac{2}{12} =$

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

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

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

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

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

7) $\frac{3}{8} - \frac{3}{12} =$

8) $\frac{3}{4} + \frac{7}{12} =$

9) $\frac{10}{12} - \frac{1}{8} =$

10) $\frac{7}{8} + \frac{1}{4} =$

11) $\frac{4}{5} - \frac{6}{12} =$

12) $\frac{3}{6} + \frac{1}{3} =$

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								

Adding & Subtracting Fractions

Name:

Solve each problem.

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

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

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

4) $\frac{7}{8} + \frac{2}{4} =$

5) $\frac{9}{10} - \frac{1}{2} =$

6) $\frac{11}{12} + \frac{1}{4} =$

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

8) $\frac{5}{6} + \frac{2}{8} =$

9) $\frac{7}{8} - \frac{2}{3} =$

10) $\frac{7}{12} + \frac{1}{6} =$

11) $\frac{5}{8} - \frac{4}{12} =$

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

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								

FRACTIONS WORD PROBLEMS – PAGE 1

1. 🍕 Pizza Party *(Same Denominator)*

Liam ate **3/8** of a pizza at lunch.
Later, he ate another **2/8** of the same pizza.

How much pizza did Liam eat altogether?

2. 🧸 Toy Box *(Same Denominator)*

A toy box was **9/10** full of toys.
After playtime, the children packed away **4/10** of the toys.

How much of the toy box is still full?

3. 🎀 Ribbon Pieces *(Different Denominators)*

Mia used **1/4** metre of ribbon for a card.
She then used another **1/2** metre for a present.

How much ribbon did Mia use altogether?

4. 💧 Water Bottle Challenge *(Different Denominators)*

Noah drank **2/3** of a bottle of water during soccer practice.
After the game, he drank another **1/6** of the bottle.

How much water did Noah drink altogether?

FRACTIONS WORD PROBLEMS – PAGE 2

1. 🍰 Birthday Cake *(Same Denominator)*

At a birthday party:

- Ava ate **3/8** of a cake
- Ben ate **2/8**
- Mum later ate another **1/8**

How much cake was eaten altogether?

2. 🧃 Juice Jug *(Different Denominators)*

A jug contained **2 whole litres** of juice.

The family drank:

- **3/4** litre at lunch
- another **1/2** litre at dinner

How much juice was left in the jug?

3. 🎨 Paint Mixing *(Same Denominator)*

Sophie used **5/12** of a tin of blue paint.
Then she used another **4/12** while painting a poster.

How much paint did Sophie use altogether?

4. 🍎 Fruit Basket *(Different Denominators)*

A fruit basket was filled to **3 1/2 kilograms**.

During the day:

- **1 1/4 kg** of fruit was sold
- then another **3/4 kg** was sold

How many kilograms of fruit are left?

FRACTIONS WORD PROBLEMS – PAGE 3

1. 🎂 School Cake Stall *(Same Denominator)*

The cake stall sold:

- **4/10** of a cake in the morning
- another **3/10** at lunchtime
- and **1/10** after school

How much cake was sold altogether?

How much cake is left?

2. 🚲 Bike Ride *(Different Denominators)*

Olivia rode her bike for:

- **1 1/2 km** in the morning
- **3/4 km** in the afternoon
- **1/4 km** in the evening

How far did Olivia ride altogether?

3. 🥤 Smoothie Shop *(Same Denominator)*

A smoothie machine contained **8/8** of a full tank.

The shop sold:

- **2/8** in the morning
- **3/8** at lunchtime
- another **1/8** later

How much smoothie was sold altogether?

How much smoothie is left?

4. 📘 Reading Challenge *(Different Denominators)*

Lucas read:

- **2/5** of his book on Monday
- another **1/10** on Tuesday
- and **3/10** on Wednesday

How much of the book did Lucas read altogether? Did he finish the whole book?

FRACTIONS WORD PROBLEMS – PAGE 4

Year 3–4 | Fraction Problem Solving Mastery ⭐

1. 🍕 School Lunch Order *(Same Denominator)*

The canteen made **5 whole pizzas** for lunch.

During lunchtime:

- students ate **6/8** of a pizza
- teachers ate **1/8**
- later, another **1/8** was eaten

How much pizza was eaten altogether?

How much pizza was left?

2. 🐠 Fish Tank *(Different Denominators)*

A fish tank contained **6 litres** of water.

During cleaning:

- **1 1/2 litres** spilled out
- another **3/4 litre** was removed
- then Dad added back **1/4 litre**

How much water is now in the tank?

3. 🎨 Art Class Supplies *(Same Denominator)*

The art teacher had **12/12 metres** of ribbon.

The students used:

- **3/12 metre** for cards
- **5/12 metres** for posters
- another **2/12 metre** for decorations

How much ribbon was used altogether?

How much ribbon is left?