RADIANT HEIGHTS ACADEMY

From Radiant Minds to Great Heights

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Student Name: _____

MATHEMATICS BOOKLET

Level 5-6 Term 2 Week 4

THIS WEEK'S FOCUS

- ✔ Adding & Subtracting Fractions
- ✔ Word Based Problems

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								

Solve each problem.

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

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

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

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

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

6) $\frac{7}{8} + \frac{6}{12} =$

7) $\frac{5}{8} - \frac{1}{2} =$

8) $\frac{3}{5} + \frac{4}{8} =$

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

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

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

12) $\frac{9}{10} + \frac{1}{3} =$

Answers

1. _____
2. _____
3. _____
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6. _____
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8. _____
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10. _____
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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) $\frac{1}{2} - \frac{1}{3} =$

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

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

4) $\frac{7}{12} + \frac{4}{10} =$

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

6) $\frac{9}{10} + \frac{4}{6} =$

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

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

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

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

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

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

Answers

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

Subtracting Mixed Fractions (visual)

Name:

Use the visual model to solve each problem.

$4\ ^{3}/_{5} - 2\ ^{4}/_{5} = ?$

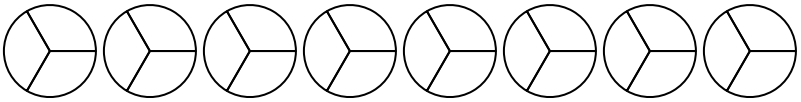
To solve a fraction subtraction problem one strategy is to shade in the starting amount first ($4\ ^{3}/_{5}$)

Next mark off the wholes (2).

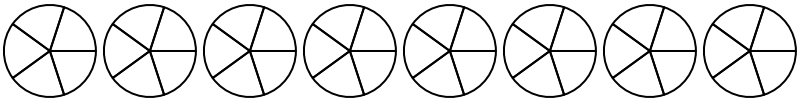
Finally mark off the fraction $^{4}/_{5}$.

Now we can see that $4\ ^{3}/_{5} - 2\ ^{4}/_{5} = 1\ ^{4}/_{5}$

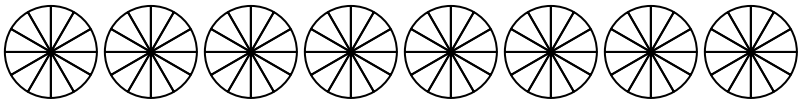
1) $6\frac{2}{3} - 3\frac{1}{3} =$



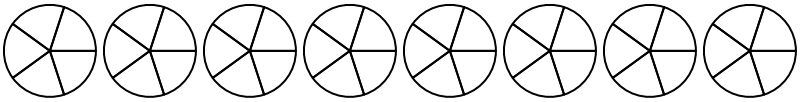
2) $7\frac{4}{5} - 5\frac{3}{5} =$



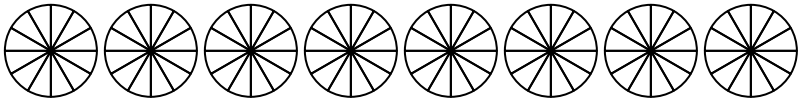
3) $3\frac{10}{12} - 1\frac{1}{12} =$



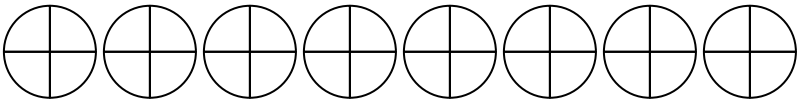
4) $7\frac{1}{5} - 1\frac{2}{5} =$



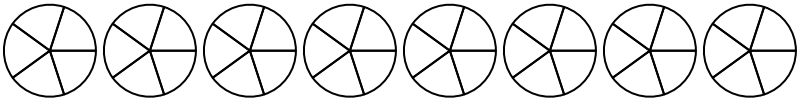
5) $4\frac{10}{12} - 2\frac{3}{12} =$



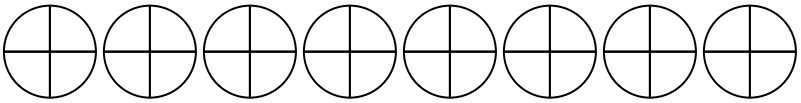
6) $3\frac{3}{4} - 1\frac{2}{4} =$



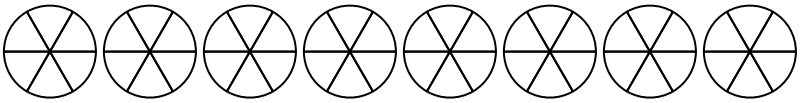
7) $5\frac{4}{5} - 1\frac{4}{5} =$



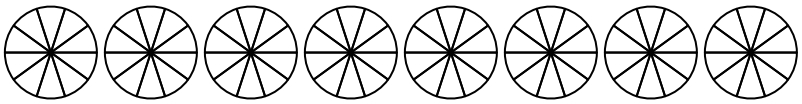
8) $7\frac{2}{4} - 1\frac{1}{4} =$



9) $5\frac{1}{6} - 2\frac{1}{6} =$



10) $5\frac{3}{10} - 3\frac{6}{10} =$



Answers

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

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

Subtracting Mixed Fractions (visual)

Name:

Use the visual model to solve each problem.

$4\ ^{3}/_{5} - 2\ ^{4}/_{5} = ?$

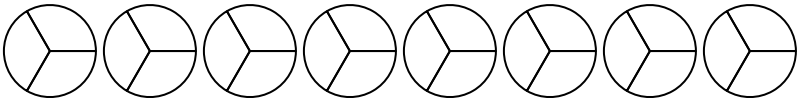
To solve a fraction subtraction problem one strategy is to shade in the starting amount first ($4\ ^{3}/_{5}$)

Next mark off the wholes (2).

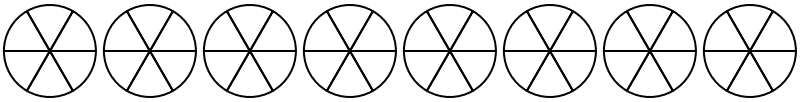
Finally mark off the fraction $^{4}/_{5}$.

Now we can see that $4\ ^{3}/_{5} - 2\ ^{4}/_{5} = 1\ ^{4}/_{5}$

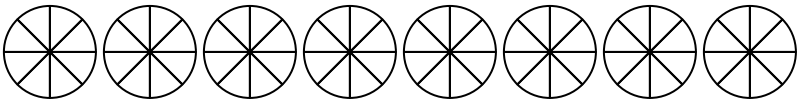
1) $7\frac{2}{3} - 3\frac{2}{3} =$



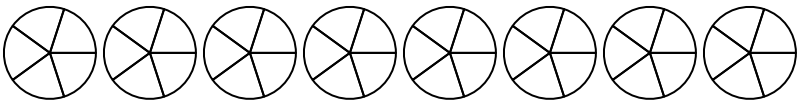
2) $7\frac{4}{6} - 5\frac{4}{6} =$



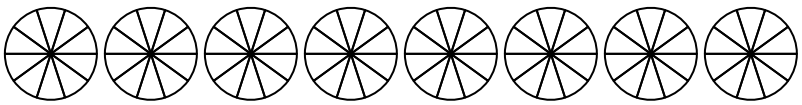
3) $5\frac{6}{8} - 2\frac{7}{8} =$



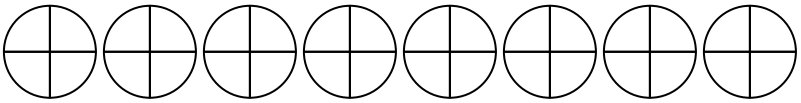
4) $4\frac{2}{5} - 1\frac{1}{5} =$



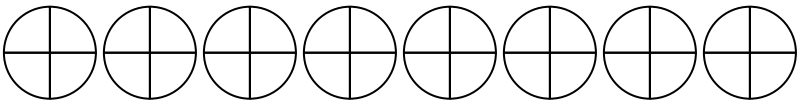
5) $7\frac{6}{10} - 2\frac{3}{10} =$



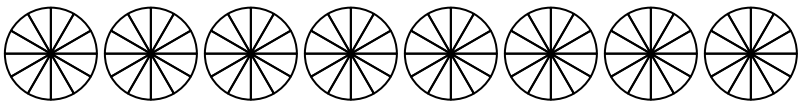
6) $7\frac{2}{4} - 4\frac{2}{4} =$



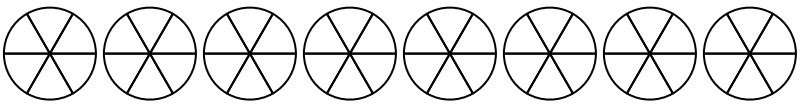
7) $6\frac{2}{4} - 2\frac{2}{4} =$



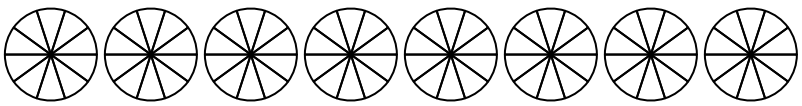
8) $6\frac{5}{12} - 3\frac{4}{12} =$



9) $6\frac{1}{6} - 3\frac{4}{6} =$



10) $6\frac{5}{10} - 3\frac{7}{10} =$



Answers

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

Subtracting Mixed Fractions (visual)

Name:

Use the visual model to solve each problem.

$4\,{}^{3}/_{5} - 2\,{}^{4}/_{5} = ?$

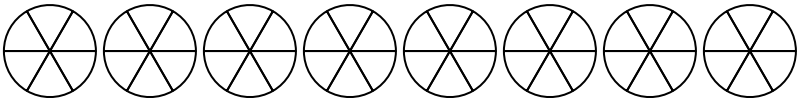
To solve a fraction subtraction problem one strategy is to shade in the starting amount first ($4\,{}^{3}/_{5}$)

Next mark off the wholes (2).

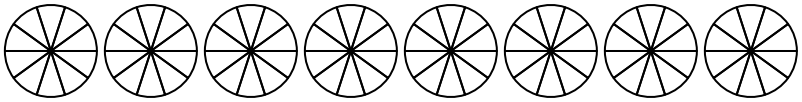
Finally mark off the fraction ${}^{4}/_{5}$.

Now we can see that $4\,{}^{3}/_{5} - 2\,{}^{4}/_{5} = 1\,{}^{4}/_{5}$

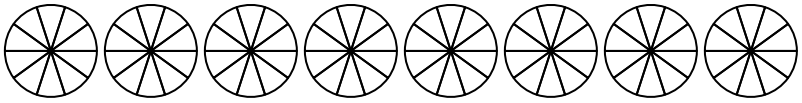
1) $6\frac{5}{6} - 1\frac{5}{6} =$



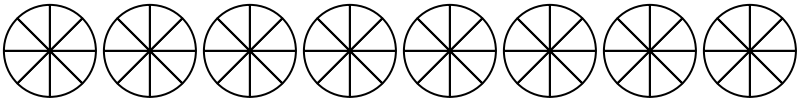
2) $7\frac{2}{10} - 3\frac{7}{10} =$



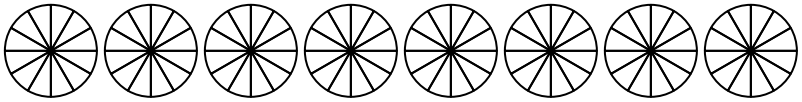
3) $4\frac{9}{10} - 1\frac{1}{10} =$



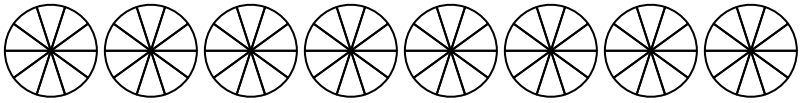
4) $6\frac{7}{8} - 4\frac{1}{8} =$



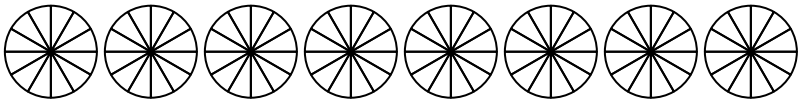
5) $4\frac{5}{12} - 1\frac{8}{12} =$



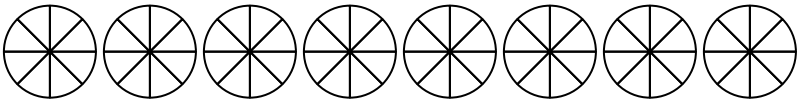
6) $5\frac{4}{10} - 3\frac{2}{10} =$



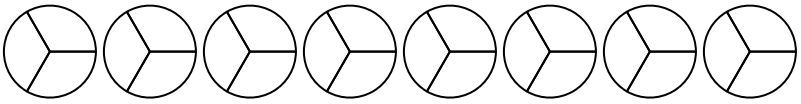
7) $4\frac{8}{12} - 1\frac{8}{12} =$



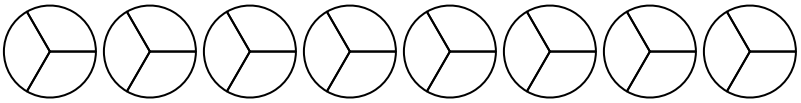
8) $4\frac{7}{8} - 2\frac{4}{8} =$



9) $3\frac{2}{3} - 1\frac{2}{3} =$



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



Answers

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

Subtracting Mixed Fractions (visual)

Name:

Use the visual model to solve each problem.

$4\ ^{3}/_{5} - 2\ ^{4}/_{5} = ?$

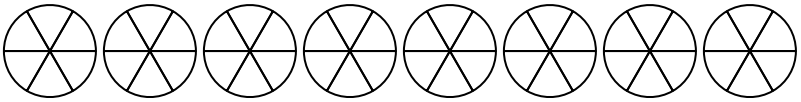
To solve a fraction subtraction problem one strategy is to shade in the starting amount first ($4\ ^{3}/_{5}$)

Next mark off the wholes (2).

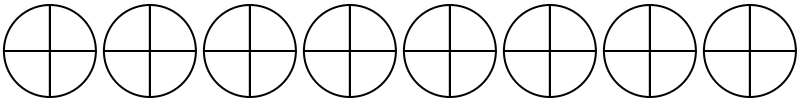
Finally mark off the fraction $^{4}/_{5}$.

Now we can see that $4\ ^{3}/_{5} - 2\ ^{4}/_{5} = 1\ ^{4}/_{5}$

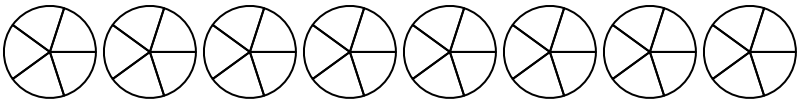
1) $6\frac{1}{6} - 3\frac{5}{6} =$



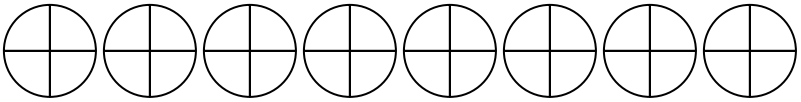
2) $4\frac{1}{4} - 2\frac{2}{4} =$



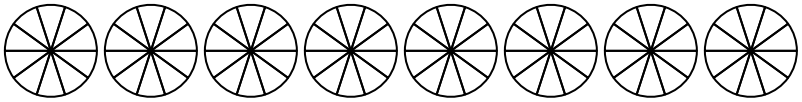
3) $6\frac{1}{5} - 2\frac{2}{5} =$



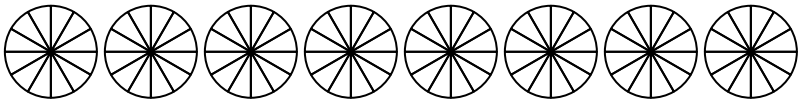
4) $5\frac{2}{4} - 1\frac{3}{4} =$



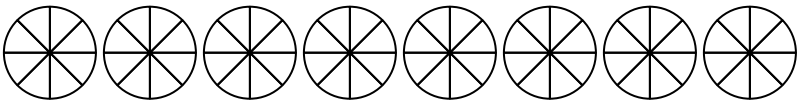
5) $7\frac{7}{10} - 5\frac{3}{10} =$



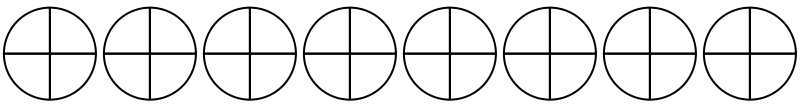
6) $7\frac{11}{12} - 3\frac{5}{12} =$



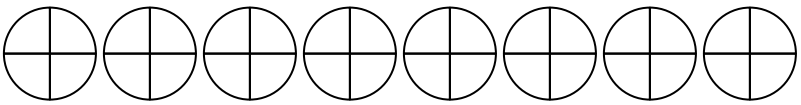
7) $6\frac{1}{8} - 3\frac{3}{8} =$



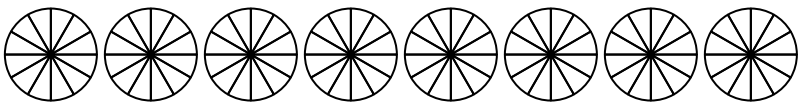
8) $6\frac{3}{4} - 3\frac{3}{4} =$



9) $6\frac{2}{4} - 1\frac{1}{4} =$



10) $6\frac{2}{12} - 4\frac{5}{12} =$



Answers

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

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

Fractions Word Problems

Question 1 🍕 Barry's Pizza Orders

Barry buys **3/4 of a pizza**. His friend Sam buys **1/2 of a pizza**.
How much pizza do they have altogether?

Working:

Answer: _____

Question 2 🧃 Juice Stand

A stall has **2 1/3 L** of juice. They add **1 1/3 L** more.
How much juice is there now?

Working:

Answer: _____

Question 3 🍫 Chocolate Blocks

A box has **4 1/2 kg** of chocolate. They use **2 kg**.
How much is left?

Working:

Answer: _____

🍉 Fractions Word Problems – Page 2

Question 1 🍉 Fruit Salad

A bowl has **3/4 kg** of apples and **5/8 kg** of bananas.
How much fruit in total?

Working:

Answer: _____

Question 2 🧃 Lemonade Day

Mia makes **2 1/2 L** of lemonade in the morning and **1 3/4 L** in the afternoon.
How much did she make altogether?

Working:

Answer: _____

Question 3 🎂 Cake Left

A bakery makes **5 1/2 cakes**. They sell **2 3/4 cakes**.
How many cakes are left?

Working:

Answer: _____

🍫 Fractions Word Problems – Page 3

Question 1 🍕 Pizza Night

A group orders **1 3/4 pizzas** and another group orders **2 1/2 pizzas**.
How many pizzas in total?

Working:

Answer: _____

Question 2 🧃 Sports Drinks

A container has **4 2/3 L** of drink. **1 5/6 L** is used.
How much is left?

Working:

Answer: _____

Question 3 🍫 Chocolate Sharing

A box has **6 1/4 kg** chocolate. It is split, and **2 3/4 kg** is used first, then **1 1/2 kg** more.
How much remains?

Working:

Answer: _____

🎉 Fractions Word Problems – Page 4

Question 1 🎉 Party Food

There is **7 1/3 kg** of snacks. Guests eat **2 2/3 kg** and then **1 1/3 kg**.
How much is left?

Working:

Answer: _____

Question 2 🧃 Juice Bar

A shop has **3 3/4 L** juice. They make another **2 1/4 L**.
How much juice now?

Working:

Answer: _____

Question 3 🍕 Pizza Shop

A shop makes **5 2/3 pizzas**. They sell **2 5/6 pizzas**.
How many are left?

Working:

Answer: _____

🍰 Fractions Word Problems – Page 5

Question 1 🍰 Cake Party

A party starts with **8 1/2 cakes**. Guests eat **3 1/4 cakes** and then **2 1/4 cakes**.
How many cakes are left?

Working:

Answer: _____

Question 2 🧃 Drink Station

There are **6 3/5 L** of juice. **2 4/5 L** is added, then **3 1/5 L** is used.
How much remains?

Working:

Answer: _____

Question 3 🍫 Chocolate Factory

A factory has **9 1/4 kg** chocolate. They use **4 3/4 kg**, then **2 1/2 kg**.
How much is left?

Working:

Answer: _____

🚀 Fractions Word Problems – Page 6 (Advanced)

Question 1 🎉 Mega Party Prep

A hall starts with **12 1/2 kg** of snacks.
They add **3 3/4 kg**, then eat **5 2/3 kg**, then **2 1/4 kg** more is eaten.
How much is left?

Working:

Answer: _____

Question 2 🧃 Carnival Drinks

A stall has **10 3/5 L** of juice.
They add **4 1/2 L**.
Students drink **6 2/3 L**, then **3 1/5 L**.
How much is left?

Working:

Answer: _____

Question 3 🍫 Chocolate Production Line

A factory produces **15 1/4 kg** chocolate.
They send **4 3/4 kg**, **5 2/3 kg**, and **2 5/6 kg** to different orders.
How much remains?

Working:

Answer: _____

🧠 Fractions Word Problems – Page 7 (Challenge Level)

Question 1 🎉 Festival Food Stalls

A stall starts with **18 1/2 kg** of food.
They receive **3 3/4 kg** more.
They sell **6 2/3 kg**, then **5 1/4 kg**, then **4 1/2 kg**.
How much is left?

Working:

Answer: _____

Question 2 🧃 Hydration Station

A station begins with **20 3/5 L** of water.
They add **5 1/2 L**.
Athletes drink **7 1/3 L**, **6 2/5 L**, and **4 1/10 L**.
How much water remains?

Working:

Answer: _____

Question 3 🍫 Factory Orders Crisis

A factory has **25 1/4 kg** of chocolate.
Orders require **6 3/4 kg**, **7 2/5 kg**, **5 1/6 kg**, and **3 3/8 kg**.
How much chocolate is left?

Working:

Answer: _____