



Solve each problem.

1) $\frac{3}{5} \times 4 \times 15$

2) $-\frac{1}{2} \times 15 \times -\frac{2}{5} \times 6 \times 6$

3) $\frac{3}{5} \times 9 \times \frac{1}{3} \times 10 \times 3$

4) $4 \times \frac{1}{2} \times 10 \times \frac{2}{5} \times 4$

5) $\frac{2}{5} \times 6 \times -\frac{1}{2} \times 15 \times 4$

6) $\frac{3}{5} \times 2 \times 10$

7) $4 \times -\frac{4}{7} \times 9 \times \frac{1}{3} \times 14$

8) $2 \times \frac{1}{2} \times 10 \times -\frac{4}{5} \times 4$

9) $\frac{1}{2} \times 10 \times 4$

10) $-\frac{1}{2} \times 9 \times \frac{1}{3} \times 4 \times 5$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Solve each problem.

$$1) \frac{3}{5} \times 4 \times 15$$

$$(\frac{3}{5} \times 15) \times 4$$

$$9 \times 4$$

$$2) -\frac{1}{2} \times 15 \times -\frac{2}{5} \times 6 \times 6$$

$$(-\frac{2}{5} \times 15) \times (-\frac{1}{2} \times 6) \times 6$$

$$-6 \times -3 \times 6$$

$$3) \frac{3}{5} \times 9 \times \frac{1}{3} \times 10 \times 3$$

$$(\frac{1}{3} \times 9) \times (\frac{3}{5} \times 10) \times 3$$

$$3 \times 6 \times 3$$

$$4) 4 \times \frac{1}{2} \times 10 \times \frac{2}{5} \times 4$$

$$4 \times (\frac{2}{5} \times 10) \times (\frac{1}{2} \times 4)$$

$$4 \times 4 \times 2$$

$$5) \frac{2}{5} \times 6 \times -\frac{1}{2} \times 15 \times 4$$

$$(-\frac{1}{2} \times 6) \times (\frac{2}{5} \times 15) \times 4$$

$$-3 \times 6 \times 4$$

$$6) \frac{3}{5} \times 2 \times 10$$

$$(\frac{3}{5} \times 10) \times 2$$

$$6 \times 2$$

$$7) 4 \times -\frac{4}{7} \times 9 \times \frac{1}{3} \times 14$$

$$4 \times (\frac{1}{3} \times 9) \times (-\frac{4}{7} \times 14)$$

$$4 \times 3 \times -8$$

$$8) 2 \times \frac{1}{2} \times 10 \times -\frac{4}{5} \times 4$$

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

$$2 \times -8 \times 2$$

$$9) \frac{1}{2} \times 10 \times 4$$

$$(\frac{1}{2} \times 4) \times 10$$

$$2 \times 10$$

$$10) -\frac{1}{2} \times 9 \times \frac{1}{3} \times 4 \times 5$$

$$(\frac{1}{3} \times 9) \times (-\frac{1}{2} \times 4) \times 5$$

$$3 \times -2 \times 5$$

Answers

1. 36

2. 108

3. 54

4. 32

5. -72

6. 12

7. -96

8. -32

9. 20

10. -30



Solve each problem.

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

2) $8 \times -\frac{3}{7} \times 15 \times \frac{2}{5} \times 21$

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

4) $-\frac{1}{5} \times 9 \times \frac{1}{3} \times 10 \times 3$

5) $4 \times -\frac{1}{7} \times 15 \times \frac{1}{5} \times 21$

6) $\frac{4}{7} \times 4 \times \frac{1}{2} \times 21 \times 5$

7) $-\frac{5}{7} \times 15 \times \frac{2}{5} \times 14 \times 6$

8) $\frac{3}{5} \times 9 \times 10$

9) $\frac{3}{5} \times 9 \times 15$

10) $8 \times \frac{4}{7} \times 10 \times \frac{4}{5} \times 21$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Solve each problem.

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

$$(\frac{4}{5} \times 10) \times 4$$

$$8 \times 4$$

$$2) 8 \times -\frac{3}{7} \times 15 \times \frac{2}{5} \times 21$$

$$8 \times (\frac{2}{5} \times 15) \times (-\frac{3}{7} \times 21)$$

$$8 \times 6 \times -9$$

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

$$(\frac{1}{2} \times 4) \times 4$$

$$2 \times 4$$

$$4) -\frac{1}{5} \times 9 \times \frac{1}{3} \times 10 \times 3$$

$$(\frac{1}{3} \times 9) \times (-\frac{1}{5} \times 10) \times 3$$

$$3 \times -2 \times 3$$

$$5) 4 \times -\frac{1}{7} \times 15 \times \frac{1}{5} \times 21$$

$$4 \times (\frac{1}{5} \times 15) \times (-\frac{1}{7} \times 21)$$

$$4 \times 3 \times -3$$

$$6) \frac{4}{7} \times 4 \times \frac{1}{2} \times 21 \times 5$$

$$(\frac{1}{2} \times 4) \times (\frac{4}{7} \times 21) \times 5$$

$$2 \times 12 \times 5$$

$$7) -\frac{5}{7} \times 15 \times \frac{2}{5} \times 14 \times 6$$

$$(\frac{2}{5} \times 15) \times (-\frac{5}{7} \times 14) \times 6$$

$$6 \times -10 \times 6$$

$$8) \frac{3}{5} \times 9 \times 10$$

$$(\frac{3}{5} \times 10) \times 9$$

$$6 \times 9$$

$$9) \frac{3}{5} \times 9 \times 15$$

$$(\frac{3}{5} \times 15) \times 9$$

$$9 \times 9$$

$$10) 8 \times \frac{4}{7} \times 10 \times \frac{4}{5} \times 21$$

$$8 \times (\frac{4}{5} \times 10) \times (\frac{4}{7} \times 21)$$

$$8 \times 8 \times 12$$

Answers

1. 32

2. -432

3. 8

4. -18

5. -36

6. 120

7. -360

8. 54

9. 81

10. 768



Solve each problem.

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

2) $10 \times \frac{2}{3} \times 21 \times \frac{1}{7} \times 9$

3) $\frac{1}{3} \times 10 \times 9$

4) $-\frac{1}{3} \times 15 \times \frac{2}{5} \times 9 \times 2$

5) $2 \times \frac{1}{2} \times 10 \times \frac{3}{5} \times 4$

6) $\frac{6}{7} \times 5 \times 21$

7) $-\frac{3}{5} \times 9 \times \frac{1}{3} \times 10 \times 8$

8) $\frac{5}{7} \times 6 \times \frac{1}{2} \times 21 \times 5$

9) $9 \times -\frac{2}{3} \times 10 \times \frac{3}{5} \times 9$

10) $2 \times -\frac{5}{7} \times 10 \times \frac{4}{5} \times 21$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Solve each problem.

$$\begin{aligned} 1) \quad & \frac{1}{5} \times 4 \times 10 \\ & (\frac{1}{5} \times 10) \times 4 \\ & 2 \times 4 \end{aligned}$$

$$\begin{aligned} 2) \quad & 10 \times \frac{2}{3} \times 21 \times \frac{1}{7} \times 9 \\ & 10 \times (\frac{1}{7} \times 21) \times (\frac{2}{3} \times 9) \\ & 10 \times 3 \times 6 \end{aligned}$$

$$\begin{aligned} 3) \quad & \frac{1}{3} \times 10 \times 9 \\ & (\frac{1}{3} \times 9) \times 10 \\ & 3 \times 10 \end{aligned}$$

$$\begin{aligned} 4) \quad & -\frac{1}{3} \times 15 \times \frac{2}{5} \times 9 \times 2 \\ & (\frac{2}{5} \times 15) \times (-\frac{1}{3} \times 9) \times 2 \\ & 6 \times -3 \times 2 \end{aligned}$$

$$\begin{aligned} 5) \quad & 2 \times \frac{1}{2} \times 10 \times \frac{3}{5} \times 4 \\ & 2 \times (\frac{3}{5} \times 10) \times (\frac{1}{2} \times 4) \\ & 2 \times 6 \times 2 \end{aligned}$$

$$\begin{aligned} 6) \quad & \frac{6}{7} \times 5 \times 21 \\ & (\frac{6}{7} \times 21) \times 5 \\ & 18 \times 5 \end{aligned}$$

$$\begin{aligned} 7) \quad & -\frac{3}{5} \times 9 \times \frac{1}{3} \times 10 \times 8 \\ & (\frac{1}{3} \times 9) \times (-\frac{3}{5} \times 10) \times 8 \\ & 3 \times -6 \times 8 \end{aligned}$$

$$\begin{aligned} 8) \quad & \frac{5}{7} \times 6 \times \frac{1}{2} \times 21 \times 5 \\ & (\frac{1}{2} \times 6) \times (\frac{5}{7} \times 21) \times 5 \\ & 3 \times 15 \times 5 \end{aligned}$$

$$\begin{aligned} 9) \quad & 9 \times -\frac{2}{3} \times 10 \times \frac{3}{5} \times 9 \\ & 9 \times (\frac{3}{5} \times 10) \times (-\frac{2}{3} \times 9) \\ & 9 \times 6 \times -6 \end{aligned}$$

$$\begin{aligned} 10) \quad & 2 \times -\frac{5}{7} \times 10 \times \frac{4}{5} \times 21 \\ & 2 \times (\frac{4}{5} \times 10) \times (-\frac{5}{7} \times 21) \\ & 2 \times 8 \times -15 \end{aligned}$$

Answers1. 82. 1803. 304. -365. 246. 907. -1448. 2259. -32410. -240



Solve each problem.

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

2) $9 \times -\frac{2}{7} \times 15 \times \frac{4}{5} \times 14$

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

4) $5 \times \frac{1}{2} \times 14 \times \frac{2}{7} \times 6$

5) $6 \times \frac{1}{2} \times 14 \times \frac{4}{7} \times 4$

6) $-\frac{2}{5} \times 14 \times -\frac{6}{7} \times 15 \times 5$

7) $-\frac{1}{3} \times 4 \times \frac{1}{2} \times 9 \times 2$

8) $2 \times \frac{2}{5} \times 14 \times -\frac{2}{7} \times 15$

9) $-\frac{1}{2} \times 9 \times \frac{1}{3} \times 4 \times 8$

10) $\frac{2}{5} \times 7 \times 10$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Solve each problem.

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

$$(\frac{1}{3} \times 9) \times 5$$

$$3 \times 5$$

$$2) 9 \times -\frac{2}{7} \times 15 \times \frac{4}{5} \times 14$$

$$9 \times (\frac{4}{5} \times 15) \times (-\frac{2}{7} \times 14)$$

$$9 \times 12 \times -4$$

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

$$(\frac{3}{5} \times 10) \times 6$$

$$6 \times 6$$

$$4) 5 \times \frac{1}{2} \times 14 \times \frac{2}{7} \times 6$$

$$5 \times (\frac{2}{7} \times 14) \times (\frac{1}{2} \times 6)$$

$$5 \times 4 \times 3$$

$$5) 6 \times \frac{1}{2} \times 14 \times \frac{4}{7} \times 4$$

$$6 \times (\frac{4}{7} \times 14) \times (\frac{1}{2} \times 4)$$

$$6 \times 8 \times 2$$

$$6) -\frac{2}{5} \times 14 \times -\frac{6}{7} \times 15 \times 5$$

$$(-\frac{6}{7} \times 14) \times (-\frac{2}{5} \times 15) \times 5$$

$$-12 \times -6 \times 5$$

$$7) -\frac{1}{3} \times 4 \times \frac{1}{2} \times 9 \times 2$$

$$(\frac{1}{2} \times 4) \times (-\frac{1}{3} \times 9) \times 2$$

$$2 \times -3 \times 2$$

$$8) 2 \times \frac{2}{5} \times 14 \times -\frac{2}{7} \times 15$$

$$2 \times (-\frac{2}{7} \times 14) \times (\frac{2}{5} \times 15)$$

$$2 \times -4 \times 6$$

$$9) -\frac{1}{2} \times 9 \times \frac{1}{3} \times 4 \times 8$$

$$(\frac{1}{3} \times 9) \times (-\frac{1}{2} \times 4) \times 8$$

$$3 \times -2 \times 8$$

$$10) \frac{2}{5} \times 7 \times 10$$

$$(\frac{2}{5} \times 10) \times 7$$

$$4 \times 7$$

Answers

1. 15

2. -432

3. 36

4. 60

5. 96

6. 360

7. -12

8. -48

9. -48

10. 28



Solve each problem.

1) $\frac{3}{5} \times 4 \times 10$

2) $\frac{2}{7} \times 4 \times 14$

3) $\frac{2}{3} \times 10 \times 6$

4) $-\frac{4}{5} \times 14 \times \frac{3}{7} \times 15 \times 4$

5) $\frac{1}{5} \times 3 \times 15$

6) $8 \times \frac{1}{2} \times 9 \times -\frac{2}{3} \times 4$

7) $\frac{1}{3} \times 7 \times 6$

8) $9 \times -\frac{1}{2} \times 14 \times -\frac{5}{7} \times 4$

9) $-\frac{2}{7} \times 6 \times \frac{1}{2} \times 21 \times 3$

10) $4 \times \frac{1}{3} \times 4 \times \frac{1}{2} \times 9$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Solve each problem.

$$1) \frac{3}{5} \times 4 \times 10$$

$$(\frac{3}{5} \times 10) \times 4$$

$$6 \times 4$$

$$2) \frac{2}{7} \times 4 \times 14$$

$$(\frac{2}{7} \times 14) \times 4$$

$$4 \times 4$$

$$3) \frac{2}{3} \times 10 \times 6$$

$$(\frac{2}{3} \times 6) \times 10$$

$$4 \times 10$$

$$4) -\frac{4}{5} \times 14 \times \frac{3}{7} \times 15 \times 4$$

$$(\frac{3}{7} \times 14) \times (-\frac{4}{5} \times 15) \times 4$$

$$6 \times -12 \times 4$$

$$5) \frac{1}{5} \times 3 \times 15$$

$$(\frac{1}{5} \times 15) \times 3$$

$$3 \times 3$$

$$6) 8 \times \frac{1}{2} \times 9 \times -\frac{2}{3} \times 4$$

$$8 \times (-\frac{2}{3} \times 9) \times (\frac{1}{2} \times 4)$$

$$8 \times -6 \times 2$$

$$7) \frac{1}{3} \times 7 \times 6$$

$$(\frac{1}{3} \times 6) \times 7$$

$$2 \times 7$$

$$8) 9 \times -\frac{1}{2} \times 14 \times -\frac{5}{7} \times 4$$

$$9 \times (-\frac{5}{7} \times 14) \times (-\frac{1}{2} \times 4)$$

$$9 \times -10 \times -2$$

$$9) -\frac{2}{7} \times 6 \times \frac{1}{2} \times 21 \times 3$$

$$(\frac{1}{2} \times 6) \times (-\frac{2}{7} \times 21) \times 3$$

$$3 \times -6 \times 3$$

$$10) 4 \times \frac{1}{3} \times 4 \times \frac{1}{2} \times 9$$

$$4 \times (\frac{1}{2} \times 4) \times (\frac{1}{3} \times 9)$$

$$4 \times 2 \times 3$$

Answers

1. 24
2. 16
3. 40
4. -288
5. 9
6. -96
7. 14
8. 180
9. -54
10. 24



Solve each problem.

1) $\frac{3}{5} \times 10 \times 10$

2) $10 \times -\frac{6}{7} \times 6 \times -\frac{1}{2} \times 21$

3) $-\frac{1}{3} \times 6 \times \frac{1}{2} \times 9 \times 6$

4) $-\frac{6}{7} \times 4 \times \frac{1}{2} \times 21 \times 3$

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

6) $2 \times \frac{2}{5} \times 9 \times \frac{2}{3} \times 10$

7) $-\frac{4}{5} \times 21 \times \frac{4}{7} \times 10 \times 10$

8) $\frac{2}{5} \times 10 \times 10$

9) $2 \times \frac{1}{2} \times 9 \times \frac{1}{3} \times 4$

10) $9 \times -\frac{1}{2} \times 14 \times -\frac{5}{7} \times 4$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Solve each problem.

$$1) \frac{3}{5} \times 10 \times 10$$

$$(\frac{3}{5} \times 10) \times 10$$

$$6 \times 10$$

$$2) 10 \times -\frac{6}{7} \times 6 \times -\frac{1}{2} \times 21$$

$$10 \times (-\frac{1}{2} \times 6) \times (-\frac{6}{7} \times 21)$$

$$10 \times -3 \times -18$$

$$3) -\frac{1}{3} \times 6 \times \frac{1}{2} \times 9 \times 6$$

$$(\frac{1}{2} \times 6) \times (-\frac{1}{3} \times 9) \times 6$$

$$3 \times -3 \times 6$$

$$4) -\frac{6}{7} \times 4 \times \frac{1}{2} \times 21 \times 3$$

$$(\frac{1}{2} \times 4) \times (-\frac{6}{7} \times 21) \times 3$$

$$2 \times -18 \times 3$$

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

$$(\frac{2}{3} \times 6) \times 2$$

$$4 \times 2$$

$$6) 2 \times \frac{2}{5} \times 9 \times \frac{2}{3} \times 10$$

$$2 \times (\frac{2}{3} \times 9) \times (\frac{2}{5} \times 10)$$

$$2 \times 6 \times 4$$

$$7) -\frac{4}{5} \times 21 \times \frac{4}{7} \times 10 \times 10$$

$$(\frac{4}{7} \times 21) \times (-\frac{4}{5} \times 10) \times 10$$

$$12 \times -8 \times 10$$

$$8) \frac{2}{5} \times 10 \times 10$$

$$(\frac{2}{5} \times 10) \times 10$$

$$4 \times 10$$

$$9) 2 \times \frac{1}{2} \times 9 \times \frac{1}{3} \times 4$$

$$2 \times (\frac{1}{3} \times 9) \times (\frac{1}{2} \times 4)$$

$$2 \times 3 \times 2$$

$$10) 9 \times -\frac{1}{2} \times 14 \times -\frac{5}{7} \times 4$$

$$9 \times (-\frac{5}{7} \times 14) \times (-\frac{1}{2} \times 4)$$

$$9 \times -10 \times -2$$

Answers

1. 60
2. 540
3. -54
4. -108
5. 8
6. 48
7. -960
8. 40
9. 12
10. 180



Solve each problem.

1) $-\frac{1}{3} \times 4 \times \frac{1}{2} \times 9 \times 4$

2) $\frac{2}{5} \times 7 \times 10$

3) $9 \times \frac{2}{3} \times 10 \times -\frac{2}{5} \times 9$

4) $\frac{3}{7} \times 4 \times -\frac{1}{2} \times 21 \times 3$

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

6) $-\frac{1}{2} \times 21 \times \frac{6}{7} \times 4 \times 6$

7) $\frac{2}{5} \times 4 \times 15$

8) $\frac{1}{2} \times 6 \times \frac{1}{3} \times 4 \times 10$

9) $5 \times -\frac{1}{2} \times 15 \times \frac{2}{5} \times 6$

10) $\frac{1}{2} \times 5 \times 6$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Solve each problem.

$$1) -\frac{1}{3} \times 4 \times \frac{1}{2} \times 9 \times 4$$

$$\left(\frac{1}{2} \times 4\right) \times \left(-\frac{1}{3} \times 9\right) \times 4$$

$$2 \times -3 \times 4$$

$$2) \frac{2}{5} \times 7 \times 10$$

$$\left(\frac{2}{5} \times 10\right) \times 7$$

$$4 \times 7$$

$$3) 9 \times \frac{2}{3} \times 10 \times -\frac{2}{5} \times 9$$

$$9 \times \left(-\frac{2}{5} \times 10\right) \times \left(\frac{2}{3} \times 9\right)$$

$$9 \times -4 \times 6$$

$$4) \frac{3}{7} \times 4 \times -\frac{1}{2} \times 21 \times 3$$

$$\left(-\frac{1}{2} \times 4\right) \times \left(\frac{3}{7} \times 21\right) \times 3$$

$$-2 \times 9 \times 3$$

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

$$5 \times \left(-\frac{2}{3} \times 6\right) \times \left(\frac{3}{5} \times 10\right)$$

$$5 \times -4 \times 6$$

$$6) -\frac{1}{2} \times 21 \times \frac{6}{7} \times 4 \times 6$$

$$\left(\frac{6}{7} \times 21\right) \times \left(-\frac{1}{2} \times 4\right) \times 6$$

$$18 \times -2 \times 6$$

$$7) \frac{2}{5} \times 4 \times 15$$

$$\left(\frac{2}{5} \times 15\right) \times 4$$

$$6 \times 4$$

$$8) \frac{1}{2} \times 6 \times \frac{1}{3} \times 4 \times 10$$

$$\left(\frac{1}{3} \times 6\right) \times \left(\frac{1}{2} \times 4\right) \times 10$$

$$2 \times 2 \times 10$$

$$9) 5 \times -\frac{1}{2} \times 15 \times \frac{2}{5} \times 6$$

$$5 \times \left(\frac{2}{5} \times 15\right) \times \left(-\frac{1}{2} \times 6\right)$$

$$5 \times 6 \times -3$$

$$10) \frac{1}{2} \times 5 \times 6$$

$$\left(\frac{1}{2} \times 6\right) \times 5$$

$$3 \times 5$$

Answers

1. -24

2. 28

3. -216

4. -54

5. -120

6. -216

7. 24

8. 40

9. -90

10. 15



Solve each problem.

1) $8 \times \frac{4}{5} \times 14 \times \frac{3}{7} \times 10$

2) $-\frac{1}{3} \times 4 \times \frac{1}{2} \times 9 \times 8$

3) $-\frac{6}{7} \times 15 \times \frac{1}{5} \times 14 \times 4$

4) $5 \times \frac{1}{2} \times 21 \times -\frac{6}{7} \times 4$

5) $\frac{2}{3} \times 8 \times 6$

6) $10 \times -\frac{1}{5} \times 9 \times -\frac{1}{3} \times 10$

7) $10 \times -\frac{3}{5} \times 21 \times -\frac{4}{7} \times 15$

8) $\frac{3}{5} \times 6 \times 15$

9) $\frac{1}{2} \times 10 \times 4$

10) $\frac{1}{2} \times 8 \times 4$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Solve each problem.

$$1) 8 \times \frac{4}{5} \times 14 \times \frac{3}{7} \times 10$$

$$8 \times (\frac{3}{7} \times 14) \times (\frac{4}{5} \times 10)$$

$$8 \times 6 \times 8$$

$$2) -\frac{1}{3} \times 4 \times \frac{1}{2} \times 9 \times 8$$

$$(\frac{1}{2} \times 4) \times (-\frac{1}{3} \times 9) \times 8$$

$$2 \times -3 \times 8$$

$$3) -\frac{6}{7} \times 15 \times \frac{1}{5} \times 14 \times 4$$

$$(\frac{1}{5} \times 15) \times (-\frac{6}{7} \times 14) \times 4$$

$$3 \times -12 \times 4$$

$$4) 5 \times \frac{1}{2} \times 21 \times -\frac{6}{7} \times 4$$

$$5 \times (-\frac{6}{7} \times 21) \times (\frac{1}{2} \times 4)$$

$$5 \times -18 \times 2$$

$$5) \frac{2}{3} \times 8 \times 6$$

$$(\frac{2}{3} \times 6) \times 8$$

$$4 \times 8$$

$$6) 10 \times -\frac{1}{5} \times 9 \times -\frac{1}{3} \times 10$$

$$10 \times (-\frac{1}{3} \times 9) \times (-\frac{1}{5} \times 10)$$

$$10 \times -3 \times -2$$

$$7) 10 \times -\frac{3}{5} \times 21 \times -\frac{4}{7} \times 15$$

$$10 \times (-\frac{4}{7} \times 21) \times (-\frac{3}{5} \times 15)$$

$$10 \times -12 \times -9$$

$$8) \frac{3}{5} \times 6 \times 15$$

$$(\frac{3}{5} \times 15) \times 6$$

$$9 \times 6$$

$$9) \frac{1}{2} \times 10 \times 4$$

$$(\frac{1}{2} \times 4) \times 10$$

$$2 \times 10$$

$$10) \frac{1}{2} \times 8 \times 4$$

$$(\frac{1}{2} \times 4) \times 8$$

$$2 \times 8$$

Answers

1. 384

2. -48

3. -144

4. -180

5. 32

6. 60

7. 1080

8. 54

9. 20

10. 16



Solve each problem.

1) $\frac{1}{2} \times 9 \times 6$

2) $\frac{1}{5} \times 4 \times \frac{1}{2} \times 15 \times 7$

3) $7 \times -\frac{1}{2} \times 21 \times \frac{4}{7} \times 4$

4) $\frac{1}{2} \times 14 \times -\frac{6}{7} \times 4 \times 10$

5) $-\frac{3}{5} \times 21 \times \frac{1}{7} \times 15 \times 2$

6) $\frac{1}{2} \times 10 \times 4$

7) $2 \times -\frac{1}{2} \times 14 \times -\frac{2}{7} \times 4$

8) $\frac{2}{7} \times 10 \times \frac{3}{5} \times 14 \times 3$

9) $\frac{1}{3} \times 9 \times 9$

10) $-\frac{1}{5} \times 6 \times -\frac{1}{2} \times 15 \times 9$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Solve each problem.

$$1) \frac{1}{2} \times 9 \times 6$$

$$(\frac{1}{2} \times 6) \times 9$$

$$3 \times 9$$

$$2) \frac{1}{5} \times 4 \times \frac{1}{2} \times 15 \times 7$$

$$(\frac{1}{2} \times 4) \times (\frac{1}{5} \times 15) \times 7$$

$$2 \times 3 \times 7$$

$$3) 7 \times -\frac{1}{2} \times 21 \times \frac{4}{7} \times 4$$

$$7 \times (\frac{4}{7} \times 21) \times (-\frac{1}{2} \times 4)$$

$$7 \times 12 \times -2$$

$$4) \frac{1}{2} \times 14 \times -\frac{6}{7} \times 4 \times 10$$

$$(-\frac{6}{7} \times 14) \times (\frac{1}{2} \times 4) \times 10$$

$$-12 \times 2 \times 10$$

$$5) -\frac{3}{5} \times 21 \times \frac{1}{7} \times 15 \times 2$$

$$(\frac{1}{7} \times 21) \times (-\frac{3}{5} \times 15) \times 2$$

$$3 \times -9 \times 2$$

$$6) \frac{1}{2} \times 10 \times 4$$

$$(\frac{1}{2} \times 4) \times 10$$

$$2 \times 10$$

$$7) 2 \times -\frac{1}{2} \times 14 \times -\frac{2}{7} \times 4$$

$$2 \times (-\frac{2}{7} \times 14) \times (-\frac{1}{2} \times 4)$$

$$2 \times -4 \times -2$$

$$8) \frac{2}{7} \times 10 \times \frac{3}{5} \times 14 \times 3$$

$$(\frac{3}{5} \times 10) \times (\frac{2}{7} \times 14) \times 3$$

$$6 \times 4 \times 3$$

$$9) \frac{1}{3} \times 9 \times 9$$

$$(\frac{1}{3} \times 9) \times 9$$

$$3 \times 9$$

$$10) -\frac{1}{5} \times 6 \times -\frac{1}{2} \times 15 \times 9$$

$$(-\frac{1}{2} \times 6) \times (-\frac{1}{5} \times 15) \times 9$$

$$-3 \times -3 \times 9$$

Answers

1. 27

2. 42

3. -168

4. -240

5. -54

6. 20

7. 16

8. 72

9. 27

10. 81



Solve each problem.

1) $7 \times -\frac{1}{2} \times 21 \times -\frac{1}{7} \times 4$

2) $\frac{1}{5} \times 2 \times 15$

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

4) $\frac{4}{5} \times 5 \times 15$

5) $7 \times -\frac{1}{5} \times 9 \times -\frac{2}{3} \times 10$

6) $5 \times -\frac{1}{2} \times 14 \times \frac{5}{7} \times 4$

7) $\frac{6}{7} \times 6 \times 21$

8) $\frac{1}{7} \times 9 \times -\frac{1}{3} \times 14 \times 10$

9) $\frac{4}{7} \times 6 \times \frac{1}{2} \times 21 \times 9$

10) $\frac{1}{2} \times 10 \times \frac{1}{5} \times 6 \times 8$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Solve each problem.

$$\begin{aligned}
 1) \quad & 7 \times -\frac{1}{2} \times 21 \times -\frac{1}{7} \times 4 \\
 & 7 \times (-\frac{1}{7} \times 21) \times (-\frac{1}{2} \times 4) \\
 & 7 \times -3 \times -2
 \end{aligned}$$

$$\begin{aligned}
 2) \quad & \frac{1}{5} \times 2 \times 15 \\
 & (\frac{1}{5} \times 15) \times 2 \\
 & 3 \times 2
 \end{aligned}$$

$$\begin{aligned}
 3) \quad & \frac{2}{3} \times 5 \times 6 \\
 & (\frac{2}{3} \times 6) \times 5 \\
 & 4 \times 5
 \end{aligned}$$

$$\begin{aligned}
 4) \quad & \frac{4}{5} \times 5 \times 15 \\
 & (\frac{4}{5} \times 15) \times 5 \\
 & 12 \times 5
 \end{aligned}$$

$$\begin{aligned}
 5) \quad & 7 \times -\frac{1}{5} \times 9 \times -\frac{2}{3} \times 10 \\
 & 7 \times (-\frac{2}{3} \times 9) \times (-\frac{1}{5} \times 10) \\
 & 7 \times -6 \times -2
 \end{aligned}$$

$$\begin{aligned}
 6) \quad & 5 \times -\frac{1}{2} \times 14 \times \frac{5}{7} \times 4 \\
 & 5 \times (\frac{5}{7} \times 14) \times (-\frac{1}{2} \times 4) \\
 & 5 \times 10 \times -2
 \end{aligned}$$

$$\begin{aligned}
 7) \quad & \frac{6}{7} \times 6 \times 21 \\
 & (\frac{6}{7} \times 21) \times 6 \\
 & 18 \times 6
 \end{aligned}$$

$$\begin{aligned}
 8) \quad & \frac{1}{7} \times 9 \times -\frac{1}{3} \times 14 \times 10 \\
 & (-\frac{1}{3} \times 9) \times (\frac{1}{7} \times 14) \times 10 \\
 & -3 \times 2 \times 10
 \end{aligned}$$

$$\begin{aligned}
 9) \quad & \frac{4}{7} \times 6 \times \frac{1}{2} \times 21 \times 9 \\
 & (\frac{1}{2} \times 6) \times (\frac{4}{7} \times 21) \times 9 \\
 & 3 \times 12 \times 9
 \end{aligned}$$

$$\begin{aligned}
 10) \quad & \frac{1}{2} \times 10 \times \frac{1}{5} \times 6 \times 8 \\
 & (\frac{1}{5} \times 10) \times (\frac{1}{2} \times 6) \times 8 \\
 & 2 \times 3 \times 8
 \end{aligned}$$

Answers

1. 42
2. 6
3. 20
4. 60
5. 84
6. -100
7. 108
8. -60
9. 324
10. 48