



Solve each problem.

1)  $\frac{3}{5} \times 10 \times 15$

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

3)  $\frac{1}{2} \times 14 \times \frac{5}{7} \times 6 \times 9$

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

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

6)  $7 \times \frac{1}{5} \times 6 \times \frac{1}{3} \times 10$

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

8)  $2 \times \frac{1}{3} \times 21 \times \frac{2}{7} \times 6$

9)  $\frac{1}{7} \times 10 \times \frac{2}{5} \times 21 \times 3$

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

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Solve each problem.

$$1) \frac{3}{5} \times 10 \times 15$$

$$(\frac{3}{5} \times 15) \times 10$$

$$9 \times 10$$

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

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

$$8 \times 2$$

$$3) \frac{1}{2} \times 14 \times -\frac{5}{7} \times 6 \times 9$$

$$(-\frac{5}{7} \times 14) \times (\frac{1}{2} \times 6) \times 9$$

$$-10 \times 3 \times 9$$

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

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

$$4 \times 8$$

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

$$(\frac{1}{3} \times 6) \times 10$$

$$2 \times 10$$

$$6) 7 \times -\frac{1}{5} \times 6 \times \frac{1}{3} \times 10$$

$$7 \times (\frac{1}{3} \times 6) \times (-\frac{1}{5} \times 10)$$

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

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

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

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

$$8) 2 \times -\frac{1}{3} \times 21 \times -\frac{2}{7} \times 6$$

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

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

$$9) \frac{1}{7} \times 10 \times \frac{2}{5} \times 21 \times 3$$

$$(\frac{2}{5} \times 10) \times (\frac{1}{7} \times 21) \times 3$$

$$4 \times 3 \times 3$$

$$10) -\frac{1}{5} \times 4 \times -\frac{1}{2} \times 15 \times 4$$

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

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

Answers

1. 90

2. 16

3. -270

4. 32

5. 20

6. -28

7. 16

8. 24

9. 36

10. 24



Solve each problem.

1)  $9 \times -\frac{4}{5} \times 21 \times \frac{4}{7} \times 15$

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

3)  $\frac{1}{7} \times 9 \times -\frac{2}{3} \times 14 \times 10$

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

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

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

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

8)  $-\frac{2}{5} \times 6 \times \frac{1}{3} \times 10 \times 5$

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

10)  $9 \times -\frac{1}{2} \times 6 \times \frac{2}{3} \times 4$

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Solve each problem.

$$1) \quad 9 \times -\frac{4}{5} \times 21 \times \frac{4}{7} \times 15$$

$$9 \times (\frac{4}{7} \times 21) \times (-\frac{4}{5} \times 15)$$

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

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

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

$$2 \times -3 \times -6$$

$$3) \quad \frac{1}{7} \times 9 \times -\frac{2}{3} \times 14 \times 10$$

$$(-\frac{2}{3} \times 9) \times (\frac{1}{7} \times 14) \times 10$$

$$-6 \times 2 \times 10$$

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

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

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

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

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

$$8 \times -6 \times 10$$

$$6) \quad \frac{3}{5} \times 9 \times 15$$

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

$$9 \times 9$$

$$7) \quad \frac{1}{2} \times 3 \times 6$$

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

$$3 \times 3$$

$$8) \quad -\frac{2}{5} \times 6 \times \frac{1}{3} \times 10 \times 5$$

$$(\frac{1}{3} \times 6) \times (-\frac{2}{5} \times 10) \times 5$$

$$2 \times -4 \times 5$$

$$9) \quad \frac{1}{2} \times 14 \times \frac{1}{7} \times 4 \times 7$$

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

$$2 \times 2 \times 7$$

$$10) \quad 9 \times -\frac{1}{2} \times 6 \times \frac{2}{3} \times 4$$

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

$$9 \times 4 \times -2$$

Answers

1. -1296
2. 36
3. -120
4. 12
5. -480
6. 81
7. 9
8. -40
9. 28
10. -72



Solve each problem.

1)  $\frac{1}{2} \times 14 \times \frac{3}{7} \times 4 \times 7$

2)  $\frac{2}{7} \times 8 \times 21$

3)  $5 \times -\frac{2}{5} \times 6 \times \frac{1}{3} \times 10$

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

5)  $-\frac{1}{5} \times 6 \times -\frac{2}{3} \times 10 \times 3$

6)  $2 \times \frac{2}{7} \times 10 \times -\frac{2}{5} \times 14$

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

8)  $\frac{1}{5} \times 21 \times -\frac{5}{7} \times 10 \times 2$

9)  $8 \times \frac{6}{7} \times 4 \times \frac{1}{2} \times 21$

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

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Solve each problem.

1)  $\frac{1}{2} \times 14 \times \frac{3}{7} \times 4 \times 7$

$(\frac{3}{7} \times 14) \times (\frac{1}{2} \times 4) \times 7$

$6 \times 2 \times 7$

2)  $\frac{2}{7} \times 8 \times 21$

$(\frac{2}{7} \times 21) \times 8$

$6 \times 8$

3)  $5 \times -\frac{2}{5} \times 6 \times \frac{1}{3} \times 10$

$5 \times (\frac{1}{3} \times 6) \times (-\frac{2}{5} \times 10)$

$5 \times 2 \times -4$

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

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

$9 \times 5$

5)  $-\frac{1}{5} \times 6 \times -\frac{2}{3} \times 10 \times 3$

$(-\frac{2}{3} \times 6) \times (-\frac{1}{5} \times 10) \times 3$

$-4 \times -2 \times 3$

6)  $2 \times \frac{2}{7} \times 10 \times -\frac{2}{5} \times 14$

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

$2 \times -4 \times 4$

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

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

$2 \times 6 \times 6$

8)  $\frac{1}{5} \times 21 \times -\frac{5}{7} \times 10 \times 2$

$(-\frac{5}{7} \times 21) \times (\frac{1}{5} \times 10) \times 2$

$-15 \times 2 \times 2$

9)  $8 \times \frac{6}{7} \times 4 \times \frac{1}{2} \times 21$

$8 \times (\frac{1}{2} \times 4) \times (\frac{6}{7} \times 21)$

$8 \times 2 \times 18$

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

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

$6 \times 4$

Answers

1. 84

2. 48

3. -40

4. 45

5. 24

6. -32

7. 72

8. -60

9. 288

10. 24



Solve each problem.

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

2)  $-\frac{1}{7} \times 10 \times \frac{3}{5} \times 14 \times 6$

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

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

5)  $9 \times \frac{1}{2} \times 15 \times -\frac{3}{5} \times 6$

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

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

8)  $6 \times -\frac{3}{7} \times 15 \times -\frac{4}{5} \times 21$

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

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

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Solve each problem.

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

$(\frac{1}{2} \times 6) \times 8$

$3 \times 8$

2)  $-\frac{1}{7} \times 10 \times \frac{3}{5} \times 14 \times 6$

$(\frac{3}{5} \times 10) \times (-\frac{1}{7} \times 14) \times 6$

$6 \times -2 \times 6$

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

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

$-3 \times -3 \times 2$

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

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

$2 \times 9$

5)  $9 \times \frac{1}{2} \times 15 \times -\frac{3}{5} \times 6$

$9 \times (-\frac{3}{5} \times 15) \times (\frac{1}{2} \times 6)$

$9 \times -9 \times 3$

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

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

$9 \times -2 \times -2$

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

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

$12 \times -3 \times 6$

8)  $6 \times -\frac{3}{7} \times 15 \times -\frac{4}{5} \times 21$

$6 \times (-\frac{4}{5} \times 15) \times (-\frac{3}{7} \times 21)$

$6 \times -12 \times -9$

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

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

$-9 \times 6 \times 7$

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

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

$4 \times -2 \times 5$

Answers

1. 24

2. -72

3. 18

4. 18

5. -243

6. 36

7. -216

8. 648

9. -378

10. -40





Solve each problem.

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

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

3)  $-\frac{2}{5} \times 6 \times -\frac{1}{2} \times 15 \times 7$

4)  $\frac{2}{3} \times 14 \times \frac{4}{7} \times 6 \times 2$

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

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

7)  $6 \times \frac{1}{5} \times 4 \times -\frac{1}{2} \times 15$

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

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

10)  $-\frac{4}{7} \times 4 \times -\frac{1}{2} \times 21 \times 10$

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Solve each problem.

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

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

$6 \times 4 \times 2$

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

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

$6 \times 2$

3)  $-\frac{2}{5} \times 6 \times -\frac{1}{2} \times 15 \times 7$

$(-\frac{1}{2} \times 6) \times (-\frac{2}{5} \times 15) \times 7$

$-3 \times -6 \times 7$

4)  $\frac{2}{3} \times 14 \times \frac{4}{7} \times 6 \times 2$

$(\frac{4}{7} \times 14) \times (\frac{2}{3} \times 6) \times 2$

$8 \times 4 \times 2$

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

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

$2 \times 8$

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

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

$9 \times -6 \times -4$

7)  $6 \times \frac{1}{5} \times 4 \times -\frac{1}{2} \times 15$

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

$6 \times -2 \times 3$

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

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

$3 \times 6$

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

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

$10 \times 2 \times -3$

10)  $-\frac{4}{7} \times 4 \times -\frac{1}{2} \times 21 \times 10$

$(-\frac{1}{2} \times 4) \times (-\frac{4}{7} \times 21) \times 10$

$-2 \times -12 \times 10$

Answers

1. 48

2. 12

3. 126

4. 64

5. 16

6. 216

7. -36

8. 18

9. -60

10. 240



Solve each problem.

1)  $3 \times -\frac{2}{5} \times 14 \times \frac{3}{7} \times 10$

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

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

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

5)  $\frac{1}{2} \times 15 \times \frac{4}{5} \times 6 \times 3$

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

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

8)  $4 \times -\frac{1}{2} \times 21 \times \frac{4}{7} \times 4$

9)  $\frac{2}{3} \times 7 \times 9$

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

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Solve each problem.

1)  $3 \times -\frac{2}{5} \times 14 \times \frac{3}{7} \times 10$

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

$3 \times 6 \times -4$

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

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

$6 \times 2$

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

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

$2 \times 5$

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

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

$15 \times 8 \times 7$

5)  $\frac{1}{2} \times 15 \times \frac{4}{5} \times 6 \times 3$

$(\frac{4}{5} \times 15) \times (\frac{1}{2} \times 6) \times 3$

$12 \times 3 \times 3$

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

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

$9 \times 12 \times 2$

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

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

$2 \times 2$

8)  $4 \times -\frac{1}{2} \times 21 \times \frac{4}{7} \times 4$

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

$4 \times 12 \times -2$

9)  $\frac{2}{3} \times 7 \times 9$

$(\frac{2}{3} \times 9) \times 7$

$6 \times 7$

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

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

$4 \times 9$

Answers

1.     **-72**    

2.     **12**    

3.     **10**    

4.     **840**    

5.     **108**    

6.     **216**    

7.     **4**    

8.     **-96**    

9.     **42**    

10.     **36**



Solve each problem.

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

2)  $9 \times \frac{1}{7} \times 9 \times -\frac{1}{3} \times 14$

3)  $4 \times \frac{1}{5} \times 21 \times -\frac{3}{7} \times 15$

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

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

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

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

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

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

10)  $-\frac{3}{5} \times 4 \times -\frac{1}{2} \times 15 \times 10$

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Solve each problem.

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

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

$4 \times -2 \times 3$

2)  $9 \times \frac{1}{7} \times 9 \times -\frac{1}{3} \times 14$

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

$9 \times -3 \times 2$

3)  $4 \times \frac{1}{5} \times 21 \times -\frac{3}{7} \times 15$

$4 \times (-\frac{3}{7} \times 21) \times (\frac{1}{5} \times 15)$

$4 \times -9 \times 3$

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

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

$-4 \times 6 \times 2$

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

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

$2 \times 6$

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

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

$-2 \times -18 \times 6$

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

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

$5 \times 9 \times -6$

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

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

$4 \times 6$

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

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

$3 \times 5$

10)  $-\frac{3}{5} \times 4 \times -\frac{1}{2} \times 15 \times 10$

$(-\frac{1}{2} \times 4) \times (-\frac{3}{5} \times 15) \times 10$

$-2 \times -9 \times 10$

Answers

1. -24

2. -54

3. -108

4. -48

5. 12

6. 216

7. -270

8. 24

9. 15

10. 180



Solve each problem.

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

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

3)  $-\frac{2}{5} \times 6 \times \frac{1}{3} \times 10 \times 5$

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

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

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

7)  $8 \times \frac{2}{7} \times 9 \times \frac{1}{3} \times 14$

8)  $8 \times -\frac{6}{7} \times 15 \times -\frac{4}{5} \times 14$

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

10)  $4 \times \frac{4}{5} \times 4 \times -\frac{1}{2} \times 15$

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Solve each problem.

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

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

$4 \times 8$

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

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

$3 \times 6 \times 8$

3)  $-\frac{2}{5} \times 6 \times \frac{1}{3} \times 10 \times 5$

$(\frac{1}{3} \times 6) \times (-\frac{2}{5} \times 10) \times 5$

$2 \times -4 \times 5$

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

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

$9 \times 6$

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

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

$2 \times 6$

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

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

$-3 \times 3 \times 2$

7)  $8 \times \frac{2}{7} \times 9 \times \frac{1}{3} \times 14$

$8 \times (\frac{1}{3} \times 9) \times (\frac{2}{7} \times 14)$

$8 \times 3 \times 4$

8)  $8 \times -\frac{6}{7} \times 15 \times -\frac{4}{5} \times 14$

$8 \times (-\frac{4}{5} \times 15) \times (-\frac{6}{7} \times 14)$

$8 \times -12 \times -12$

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

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

$3 \times -2 \times -9$

10)  $4 \times \frac{4}{5} \times 4 \times -\frac{1}{2} \times 15$

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

$4 \times -2 \times 12$

Answers

1. 32

2. 144

3. -40

4. 54

5. 12

6. -18

7. 96

8. 1152

9. 54

10. -96





Solve each problem.

1)  $7 \times \frac{1}{7} \times 15 \times \frac{1}{5} \times 14$

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

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

4)  $8 \times \frac{1}{5} \times 9 \times \frac{2}{3} \times 10$

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

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

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

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

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

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

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Solve each problem.

1)  $7 \times \frac{1}{7} \times 15 \times \frac{1}{5} \times 14$

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

$7 \times 3 \times 2$

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

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

$2 \times 4$

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

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

$2 \times 3 \times -2$

4)  $8 \times \frac{1}{5} \times 9 \times \frac{2}{3} \times 10$

$8 \times (\frac{2}{3} \times 9) \times (\frac{1}{5} \times 10)$

$8 \times 6 \times 2$

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

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

$-15 \times 8 \times 8$

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

$(\frac{2}{7} \times 21) \times 8$

$6 \times 8$

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

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

$15 \times 2 \times 5$

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

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

$-9 \times 12 \times 7$

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

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

$6 \times 10$

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

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

$-8 \times -3 \times 6$

Answers

1. 42

2. 8

3. -12

4. 96

5. -960

6. 48

7. 150

8. -756

9. 60

10. 144



Solve each problem.

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

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

3)  $8 \times -\frac{1}{2} \times 14 \times -\frac{5}{7} \times 4$

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

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

6)  $\frac{3}{7} \times 8 \times 21$

7)  $2 \times \frac{2}{5} \times 21 \times \frac{3}{7} \times 10$

8)  $-\frac{3}{7} \times 6 \times -\frac{1}{3} \times 14 \times 3$

9)  $\frac{2}{7} \times 8 \times 21$

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

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Solve each problem.

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

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

$12 \times 4$

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

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

$9 \times -6 \times 2$

3)  $8 \times -\frac{1}{2} \times 14 \times -\frac{5}{7} \times 4$

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

$8 \times -10 \times -2$

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

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

$-2 \times -18 \times 9$

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

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

$3 \times -3 \times 2$

6)  $\frac{3}{7} \times 8 \times 21$

$(\frac{3}{7} \times 21) \times 8$

$9 \times 8$

7)  $2 \times \frac{2}{5} \times 21 \times \frac{3}{7} \times 10$

$2 \times (\frac{3}{7} \times 21) \times (\frac{2}{5} \times 10)$

$2 \times 9 \times 4$

8)  $-\frac{3}{7} \times 6 \times -\frac{1}{3} \times 14 \times 3$

$(-\frac{1}{3} \times 6) \times (-\frac{3}{7} \times 14) \times 3$

$-2 \times -6 \times 3$

9)  $\frac{2}{7} \times 8 \times 21$

$(\frac{2}{7} \times 21) \times 8$

$6 \times 8$

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

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

$2 \times 5$

Answers

1. 48

2. -108

3. 160

4. 324

5. -18

6. 72

7. 72

8. 36

9. 48

10. 10