

# Mixed Operations

## I. ADD, SUBTRACT, MULTIPLY, OR DIVIDE TWO INTEGERS

1. Evaluate the following expressions.

A.  $(-99) \times (-1) =$

B.  $(-1) \times 0 =$

C.  $-3 - (-2) =$

D.  $5 + 8 =$

E.  $-6 \div 2 =$

F.  $-4 \div 24 =$

G.  $125 \times (-2) =$

H.  $(-60) \div (-30) =$

I.  $(-51) - (100) =$

J.  $29 + (-51) =$

K.  $(-5) \div 1 =$

L.  $6 - 17 =$

2. Evaluate the following expressions and Choose the most correct answer from the list.

A.  $(-5) \div (-) =$

-5

5

10

5 + 5

B.  $500 \times (-2) =$

-1000

1000

250

-250

C.  $500 \div (-2)$

-1000

1000

250

-250

D.  $(-750) - (200)$

950

1050

-550

550

## II. EVALUATE NUMERICAL EXPRESSIONS INVOLVING DECIMALS.

1. Evaluate the following number expressions (write your answer as a decimal or integer)

A.  $2 \div 0.5 - 6$

B.  $(0.75 - 0.23) + 7 \times 0.6 \times 5$

C.  $0.5 + 0.8 \times 1.2 + 2$

D.  $2.12 \times 2.5 + 3 - 10$

E.  $7.95 + 3.20 \times (36.10 \div 4)$

F.  $9 \div 3 + 0.795 - 2.1001$

2. Evaluate the following numerical expressions. Tick the correct answer from the list (Do not round your answer)

A.  $10.2 - 7 + 0.4 =$

3.6

2.8

3

4

B.  $2.4 \times 6.8 \div 5 - 4.0 + 3.3$

2.56

2.6

2

2.564

C.  $2.4 \times 6.8 \div 5 - 3.96 + 3.3$

3

2.60

2.604

2.6

D.  $0.51^2 - 0.9 - 2 \times 10$

-20.6399

-28.7399

-20.6

-28.7

### III. ADD SUBTRACT MULTIPLY OR DIVIDE TWO WHOLE NUMBERS

A. Multiply 38,108 by 9



B. Divided 70,808 by 8



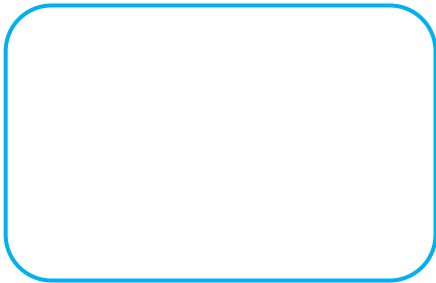
C. Divided 70,808 by 3



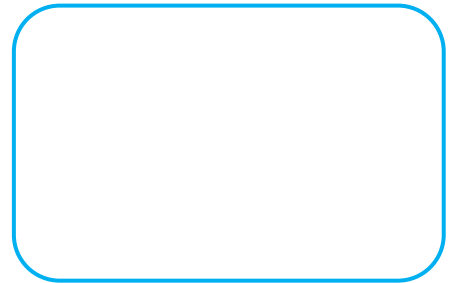
D. Subtract 4,465 from 9,952



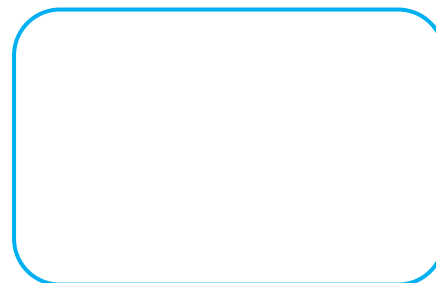
E. Add 5,385 and 5,296



F. Multiply 78,200 by 104



G. Add. 1,803 and 202



#### IV. ADD SUBTRACT MULTIPLY OR DIVIDE TWO WHOLE NUMBERS: WORD PROBLEMS

1. Erica's dad is a business tycoon. He intends to order 520 brand new fridges to be delivered in trucks right to his store. If each truck can carry only 20 fridges, how many trucks will Erica's dad need?
2. There are 12 parking floors in the mall of Arabia in Egypt. If each parking floor can accommodate 25 cars, then what is the total number of cars all the 12 floors can accommodate?
3. Mary just came back from her long vacation. She told her friend that 850 passengers boarded the plane she was in. During their transit, 220 passengers got off. How many passengers were left on the plane?
4. Tony is a real estate dealer. Right now, he has about 56 apartments of same design to sell. If each apartment cost \$2,912,450, how much money will he make from selling all the apartments?
5. Joan loves shopping so much. On Saturday, she went shopping. She spent \$125 on a dress. \$785 on a designer handbag and \$8.254 on the latest designer pair of shoes. How much money did she spend in all?
6. A very famous American musician is saving up to buy a mansion in Beverly Hills. He has \$97,521,250 in his bank account; he has a project that is going to fetch a total sum of \$430,000 for him and he just completed an album that is going to give him a total of \$87,125,502. If the cost of the mansion is \$ 523,785,000, how much more does he need?
7. John owns a very big electronic store. Last week, he received a delivery of electronics in 4 containers. The first container had 1,265 electronics, the second container has 857 electronics, the third container had 5,789 electronics and the fourth container had 4,021 electronics. How many electronics did he receive in all?

#### V. EVALUATE NUMERICAL EXPRESSIONS INVOLVING WHOLE NUMBERS

1. Evaluate the following numerical expressions below.

A.  $9 + 10 \times 6 - 52$

B.  $15 \div 5 + 10 \times 2 - 15$

C.  $9 + 2 \times (62 \times 10) \div 6 =$

D.  $30 - 5 - (82 \div 4) =$

2. Evaluate the following expressions and answer TRUE or FALSE.

A.  $15 - 2 + (36 \div 6) = 19$

True

False

B.  $7 + 7 \times 12 + 3 = 94$

True

False

C.  $12 - (22 - 0) \times 3 = 24$

True

False

D.  $(92 - 62) + 58 \div 2 = 16$

☐

True

☐

False

## VI. ADD SUBTRACT MULTIPLY OR DIVIDE TWO DECIMALS

A. Add 60.59 to 62.31

B. Divide 384.7 by 4.5

C. Multiply 8.729 by 5.2

D. Multiply 523.01 by 6.7

E. Subtract 35.20 from 62.37

F. Subtract 834.4 from 911.201

G. Add 6.235 to 79.5

## VII. ADD, SUBTRACT, MULTIPLY, OR DIVIDE TWO DECIMALS: WORD PROBLEMS

1. During a swimming competition, David swam 6.2 miles longer than his competitor John who only swam 4.002 miles. How much further did David swim more than John?
2. A class of 25 students went on a field trip to the zoo. Each student had to pay \$25.75 for the entrance fee. How much will it cost 25 students?
3. In one inch, there are 2.54 centimeters. How many inches are there in 269.36 centimeters? Write your answer in four decimal places.
4. I have a very long rope measuring 752.50m. If I cut the rope into a piece measuring 50.75m, what is the length of the original rope now?
5. Today, my four friends and I ordered some pizza. The total bill was \$50.26. To the nearest cent, how much money did each of us pay if we divided the bill equally?
6. Aliya has a piece of cloth measuring 25.69 meters long and 75.50 meters wide. What is the area of the cloth?
7. A basket of cherries weighs 90.23 kilograms and a basket of apples weighs 25.96 kilograms. What is the total weight of the baskets combined?

## VIII. EVALUATE THE FOLLOWING EXPRESSIONS INVOLVING DECIMALS

1. Evaluate the following numerical expressions (write your answer as a decimal or integer)

A.  $2 \div 0.5 - 6$

B.  $(0.75 - 0.23) + 7 \times 0.6 \times 5$

C.  $0.8 + 0.8 \times 1.2 + 2$

D.  $2.1 + 2 \times 2.5 + 3 - 10$

E.  $7.95 + 3.20 \times (36.10 \div 4)$

F.  $9 \div 3 + 0.795 - 2.1001$

2. Evaluate the following numerical expressions. Tick the correct answer from the list (Do not Round your answer)

A.  $10.2 - 7 + 0.4 =$

3.6

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B.  $2.4 \times 6.8 \div 5 - 4.0 + 3.3$

2.56

2.6

2

2.564

C.  $2.4 \times 6.8 \div 5 - 3.96 + 3.3$

3

2.60

2.604

2.6

D.  $0.51^2 - 0.9 - 2 \times 10$

-20.6399

-28.7399

-20.6

-28.7

## IX. ADD, SUBTRACT, MULTIPLY, OR DIVIDE TWO FRACTIONS

1. **Multiply.**  $\frac{6}{21} \times \frac{5}{40}$

2. **Add.**  $\frac{5}{6} + \frac{6}{9}$

3. **Divide.**  $\frac{10}{3} \div \frac{5}{2}$

4. **Subtract.**  $\frac{3}{4} - \frac{2}{5}$

## X. ADD, SUBTRACT, MULTIPLY, OR DIVIDE TWO FRACTIONS: WORD PROBLEMS

1. Shely gave  $7\frac{1}{2}$  pieces of cake to her brother, Charles and  $\frac{2}{3}$  to her son. How much of the pieces of cake did she give away? Write your answer as a mixed number
2. Alice decided to jog  $2\frac{4}{5}$  miles every day in order to stay healthy. This morning, she jogged  $1\frac{1}{4}$  miles. How much more does she need to jog in the evening if she wants to meet her target distance? Write your answer as a mixed number.
3. have a piece of cloth that is 21 yards in length. I want to divide the piece of cloth evenly into  $\frac{1}{3}$  yards How many pieces will I split the cloth into?
4. Victor comes from a very large family. He has 45 sea shells. He intends to give each of his cousins in their next family come together party  $\frac{3}{5}$  of his sea shells so that they can decorate their rooms with it. How many cousins will he give the sea shells to in all?
5. Jane drank  $\frac{1}{2}$  of a liter of water in the morning.  $\frac{1}{2}$  of a liter of water in the afternoon and  $\frac{3}{4}$  of a liter of water before bed time. How much water did she drink in all?
6. Emma has a ribbon that is  $\frac{2}{5}$  of a meter long. She cuts out  $\frac{3}{12}$  meter from it to decorate a gift for her friend. How much ribbon is left?
7. Last night, Mrs. Hunter kept of the leftover  $\frac{3}{4}$  cake in the fridge. The following day. her husband ate  $\frac{1}{3}$  of it. What fraction of the cake did her husband eat?
8. Peter bought a piece of metal rod that is  $\frac{1}{2}$  meter long. He needs to cut  $\frac{1}{4}$  meter out of it to fix his window. What fraction of the metal rod will be left?
9. A recipe calls for  $\frac{3}{5}$  of a cup of bread flour. Out of the  $\frac{3}{5}$  of a cup of the bread flour, Barbra only used  $\frac{1}{4}$  of it. How much of the bread flour did she use?