

# Olympiad

## Addition and Subtraction

1. John has 7 apples and buys 5 more. How many apples does John have now?
2. Lily has 12 candies. She gives 4 to her friend. How many candies does Lily have left?
3. A tree has 10 birds sitting on it. 3 birds fly away. How many birds are left on the tree?
4. Tim has 15 marbles. He loses 5. How many marbles does he have now?
5. Sara has 20 stickers. She gives 8 to her friends. How many stickers does she have left?
6. There are 18 students in a class. 5 of them leave. How many students are left in the class?
7. Emma has 9 balloons. She pops 4 of them. How many balloons are left?
8. A toy shop has 25 cars. They sell 10 cars. How many cars are left in the shop?
9. Sam has 6 chocolates. He gets 4 more from his mother. How many chocolates does Sam have now?
10. A farmer has 13 cows. He sells 5 cows. How many cows does the farmer have left?
11. Alex has 11 pencils and buys 4 more. How many pencils does he have now?
12. A baker has 24 cupcakes. He sells 7 of them. How many cupcakes are left?
13. Emily has 30 books. She gives 9 to her friend. How many books does she have left?
14. Mark has 22 toy cars. He buys 8 more. How many toy cars does Mark have now?
15. A garden has 16 flowers. 6 flowers are picked. How many flowers are left in the garden?
16. If there are 50 apples in a basket and 20 are taken out, how many apples are left in the basket?
17. A classroom has 12 chairs. 4 chairs are moved. How many chairs are left in the classroom?
18. If a box has 40 toys and 15 toys are removed, how many toys are left in the box?
19. There are 18 cookies on a plate. 7 cookies are eaten. How many cookies are left?
20. Jane has 25 marbles. She gives 10 marbles to her friends. How many marbles does Jane have now?
21. Ben has 14 candies. He eats 6 and buys 7 more. How many candies does Ben have now?
22. There are 45 apples in a basket. 20 apples are taken out, and 15 new apples are added. How many apples are in the basket now?
23. Jenny has 25 flowers. She gives 10 to her friend and picks 8 more. How many flowers does she have now?
24. There are 60 students in a hall. 30 students leave, and 10 more students enter. How many students are in the hall now?
25. A farmer had 80 cows. He sold 40 cows, then bought 20 more. How many cows does the farmer have now?
26. A toy store has 35 toys. It sells 15 toys and buys 25 more. How many toys does the store have now?

- David has 50 chocolates. He gives 20 to his friends and buys 30 more. How many chocolates does David have now?
28. A class has 40 students. 10 students leave, and 5 new students join. How many students are in the class now?
  29. A bakery had 90 cupcakes. It sold 30 in the morning and baked 40 more. How many cupcakes does the bakery have now?
  30. Tim had 100 marbles. He gave 40 to his brother and then bought 20 more. How many marbles does Tim have now?
  31. John has 70 stickers. He gives 30 to his friends and buys 20 more. How many stickers does John have now?
  32. A basket has 30 oranges. 10 oranges are eaten, and 15 new oranges are added. How many oranges are in the basket now?
  33. There are 120 chairs in a hall. 50 chairs are moved out, and 30 more chairs are brought in. How many chairs are there now?
  34. A pet store had 60 fish. It sold 20 fish and received 15 more fish. How many fish does the store have now?
  35. A fruit vendor had 150 apples. He sold 70 apples and bought 50 more. How many apples does the vendor have now?
  36. Lucy had 200 candies. She gave 90 to her friends and bought 50 more. How many candies does Lucy have now?
  37. There are 85 books in a library. 30 books are borrowed, and 25 new books are added. How many books are in the library now?
  38. Mark had 100 pencils. He gave 40 to his classmates and bought 20 more. How many pencils does Mark have now?
  39. A garden has 150 flowers. 50 flowers are picked, and 30 new flowers bloom. How many flowers are in the garden now?
  40. A toy store had 200 toys. It sold 80 toys and bought 60 more. How many toys does the store have now?

## Multiplication and Division

1. If a bicycle has 2 wheels, how many wheels do 5 bicycles have?
2. A box contains 4 pencils. How many pencils are there in 6 boxes?
3. If a dog eats 3 biscuits a day, how many biscuits does it eat in 7 days?
4. There are 3 apples in each basket. If there are 8 baskets, how many apples are there in total?
5. A pack contains 5 crayons. How many crayons are there in 9 packs?
6. If 6 students each have 4 books, how many books do they have altogether?
7. There are 7 flowers in each vase. If there are 4 vases, how many flowers are there in total?

- If a car has 4 wheels, how many wheels do 10 cars have?
9. A carton holds 6 eggs. How many eggs are in 7 cartons?
  10. If a chair has 4 legs, how many legs do 9 chairs have?
  11. If there are 12 cookies and you share them equally between 4 friends, how many cookies does each friend get?
  12. There are 16 toys. If you divide them equally among 4 children, how many toys does each child get?
  13. A teacher has 24 pencils. She shares them equally among 6 students. How many pencils does each student get?
  14. There are 18 oranges, and you divide them equally among 3 baskets. How many oranges are in each basket?
  15. If you have 10 chocolates and you share them equally between 2 friends, how many chocolates does each friend get?
  16. A baker has 12 cupcakes. If he shares them equally among 3 customers, how many cupcakes does each customer get?
  17. There are 20 cookies, and they are divided equally among 5 children. How many cookies does each child get?
  18. A farmer has 30 eggs and divides them equally among 5 baskets. How many eggs are in each basket?
  19. If 25 pencils are shared equally between 5 students, how many pencils does each student get?
  20. There are 24 stickers. If you divide them equally among 4 friends, how many stickers does each friend get?
  21. If a dog eats 4 biscuits every day, how many biscuits will it eat in 6 days?
  22. There are 5 apples in each basket. If there are 8 baskets, how many apples are there in total?
  23. A box contains 6 books. How many books are in 7 boxes?
  24. If there are 3 balls in each bag, how many balls are there in 9 bags?
  25. A chair has 4 legs. How many legs do 6 chairs have?
  26. There are 7 flowers in each vase. If there are 5 vases, how many flowers are there in total?
  27. If a table has 4 legs, how many legs do 8 tables have?
  28. A carton holds 12 eggs. How many eggs are in 4 cartons?
  29. If there are 6 pencils in each box, how many pencils are in 10 boxes?
  30. A bicycle has 2 wheels. How many wheels do 8 bicycles have?
  31. A tree has 3 nests. If there are 5 birds in each nest, how many birds are there in total?
  32. If a car has 4 wheels, how many wheels do 5 cars have?
  33. There are 4 pens in each drawer. If there are 9 drawers, how many pens are there in total?
  34. A farmer has 6 cows. Each cow gives 5 liters of milk. How many liters of milk do the cows give in total?
  35. A bus has 40 seats. How many seats do 3 buses have?

A shop has 7 boxes. Each box contains 5 balls. How many balls are there in total?

37. If there are 5 oranges in each basket and 6 baskets, how many oranges are there in total?
38. A baker bakes 8 cakes every day. How many cakes does he bake in 7 days?
39. If there are 4 windows in each room and 10 rooms, how many windows are there in total?
40. A movie theater has 12 rows of seats. If there are 10 seats in each row, how many seats are there in total?
41. If there are 30 apples and you divide them equally among 5 baskets, how many apples go in each basket?
42. A baker has 36 cookies and wants to put them into 9 boxes equally. How many cookies will go in each box?
43. There are 40 marbles, and they are divided equally into 8 bags. How many marbles are in each bag?
44. You have 28 pencils and you want to divide them equally between 7 students. How many pencils does each student get?
45. If you have 45 candies and want to share them equally among 9 friends, how many candies does each friend get?
46. A farmer has 42 apples and divides them equally among 7 baskets. How many apples are in each basket?
47. If 50 toys are shared equally between 10 children, how many toys does each child get?
48. You have 32 chocolates and want to divide them equally among 8 friends. How many chocolates does each friend get?
49. If there are 64 candies divided equally among 8 children, how many candies does each child get?
50. A box contains 72 balls. If you divide them equally into 9 bags, how many balls go into each bag?

## Word Problems

1. Jane has 8 apples and she buys 6 more. Then, she eats 5 apples. How many apples does she have left?
2. Tim has 15 candies. He gives 7 to his sister and buys 4 more. How many candies does Tim have now?
3. A store had 30 toys. It sold 10 toys and then received 20 more. How many toys does the store have now?
4. Lucy has 12 balloons. She gives 5 to her friends and gets 8 more from her mom. How many balloons does she have now?
5. There are 20 students in a class. 8 students leave early, but 6 new students join. How many students are in the class now?
6. John has 25 marbles. He gives 10 to his brother and buys 12 more. How many marbles does he have now?
7. A baker had 50 cookies. He sold 18 cookies in the morning and baked 25 more in the afternoon. How many cookies does the baker have now?
8. Sara had 40 flowers. She gave 16 to her friends and picked 10 more. How many flowers does Sara have now?
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- There are 24 students in a class. If 9 students leave and 6 new students join, how many students are in the class now?
10. Tom had 60 candies. He gave 20 to his friends and then bought 15 more. How many candies does Tom have now?
  11. There are 35 people in a park. If 15 people leave and 10 new people enter, how many people are in the park now?
  12. A fruit vendor has 48 oranges. He sells 25 and then buys 20 more. How many oranges does he have now?
  13. A library has 60 books. If 18 books are borrowed and 12 new books are added, how many books are in the library now?
  14. You have 28 pencils. You give 10 to your friend and buy 8 more. How many pencils do you have now?
  15. There are 50 children in a playground. If 14 children go home and 6 new children arrive, how many children are there now?
  16. A bakery has 80 cakes. It sells 35 and bakes 20 more. How many cakes does the bakery have now?
  17. There are 90 books in a library. 20 are borrowed, but the librarian adds 15 new books. How many books are there now?
  18. Sam had 100 stickers. He gave 30 to his friends and bought 20 more. How many stickers does he have now?
  19. There are 75 marbles in a jar. 25 marbles are taken out and 10 new marbles are added. How many marbles are in the jar now?
  20. A pet store has 50 fish. It sells 18 fish and receives 12 new fish. How many fish does the store have now?
  21. Lisa has 30 pencils. She gives 12 to her friends and buys 10 more. How many pencils does she have now?
  22. A bus has 50 passengers. 20 passengers get off, and 10 new passengers get on. How many passengers are on the bus now?
  23. A bakery had 70 muffins. It sold 30 muffins and baked 20 more. How many muffins does the bakery have now?
  24. A garden has 40 flowers. 15 flowers are picked, and 10 more flowers bloom. How many flowers are in the garden now?
  25. A store had 90 toys. It sold 40 toys and received 30 new toys. How many toys does the store have now?
  26. Jenny had 80 marbles. She gave 30 to her brother and bought 20 more. How many marbles does Jenny have now?
  27. A class had 60 students. 20 students went on a trip, and 10 new students joined. How many students are in the class now?
  28. A fruit vendor had 120 apples. He sold 50 apples and bought 40 more. How many apples does the vendor have now?
  29. A pet store had 100 fish. It sold 40 fish and received 30 more fish. How many fish does the store have now?
  30. A farmer had 200 cows. He sold 80 cows and bought 50 more. How many cows does the farmer have now?

31. A bakery had 100 cookies. It sold 30 in the morning and baked 20 more. How many cookies does the bakery have now?
32. There were 70 students in a hall. 30 students left, and 20 more students entered. How many students are in the hall now?
33. Sam had 90 stickers. He gave 40 to his friends and bought 30 more. How many stickers does Sam have now?
34. A shop had 150 toys. It sold 50 toys and bought 40 more. How many toys does the shop have now?
35. A baker had 120 muffins. He sold 50 muffins and baked 30 more. How many muffins does the baker have now?
36. A bus had 60 passengers. 30 passengers got off, and 20 new passengers got on. How many passengers are on the bus now?
37. A library had 80 books. 40 books were borrowed, and 30 new books were added. How many books are in the library now?
38. A class had 40 students. 10 students left, and 20 new students joined. How many students are in the class now?
39. Tim had 70 candies. He gave 30 to his friends and bought 20 more. How many candies does Tim have now?
40. A school had 200 students. 80 students graduated, and 60 new students joined. How many students are in the school now?

## Fractions

1. What is half of 12?
2. If you divide a pizza into 4 equal slices, what fraction of the pizza is 1 slice?
3. What is one-third of 15?
4. If you cut an apple into 2 equal pieces, what fraction of the apple is each piece?
5. What is one-fourth of 20?
6. What is half of 20?
7. If you divide a pizza into 8 equal slices, what fraction of the pizza is 1 slice?
8. What is one-third of 21?
9. If you cut a cake into 4 equal pieces, what fraction of the cake is each piece?
10. What is one-fourth of 16?
11. If a pie is cut into 6 equal slices, what fraction of the pie is 1 slice?
12. What is half of 18?
13. If you divide a sandwich into 2 equal halves, what fraction of the sandwich is each half?
14. What is one-third of 12?

15. If you cut a watermelon into 8 equal slices, what fraction of the watermelon is 1 slice?
16. What is half of 10?
17. If you divide a pizza into 4 equal slices, what fraction of the pizza is 1 slice?
18. What is one-third of 9?
19. If you cut a cake into 8 equal pieces, what fraction of the cake is 1 piece?
20. What is one-fourth of 16?
21. If you have 12 apples and you eat 3, what fraction of the apples do you have left?
22. What is one-half of 14?
23. If you divide a chocolate bar into 6 equal parts, what fraction is 2 parts?
24. What is one-third of 18?
25. If you cut a pie into 10 equal slices, what fraction of the pie is 3 slices?
26. What is half of 20?
27. If you have 15 cookies and you give away 5, what fraction of the cookies do you still have?
28. What is one-fourth of 24?
29. If you divide a sandwich into 4 equal pieces, what fraction of the sandwich is each piece?
30. What is one-fifth of 25?
31. If you have 30 candies and you eat 6, what fraction of the candies do you have left?
32. What is one-half of 32?
33. If a pizza is cut into 8 slices and you eat 4, what fraction of the pizza is left?
34. What is one-third of 27?
35. If a fruit basket contains 12 fruits and you take 3, what fraction of the fruits did you take?

## Measurement

1. A rope is 20 meters long. If you cut off 7 meters, how long is the remaining rope?
2. If a pencil is 15 centimeters long and you sharpen off 3 centimeters, how long is the pencil now?
3. A piece of cloth is 30 meters long. If 12 meters are cut off, how many meters of cloth are left?
4. A book weighs 500 grams. If 200 grams are removed from it (such as a torn-off section), how much does the book weigh now?
5. If a jug holds 3 liters of water and you pour out 1 liter, how many liters of water remain in the jug?
6. A ribbon is 25 meters long. If you cut off 10 meters, how long is the remaining ribbon?
7. If a pencil is 15 centimeters long and you sharpen off 5 centimeters, how long is the pencil now?
8. A piece of cloth is 40 meters long. If 12 meters are cut off, how many meters of cloth are left?

- A book weighs 600 grams. If 150 grams are removed from it, how much does the book weigh now?
10. If a jug holds 5 liters of water and you pour out 2 liters, how many liters of water remain in the jug?
  11. A piece of string is 60 centimeters long. If you cut off 20 centimeters, how much string is left?
  12. A cake weighs 1.5 kilograms. If you eat 500 grams of it, how much cake is left?
  13. If a bottle contains 2 liters of juice and you drink 0.5 liters, how much juice is left in the bottle?
  14. A box weighs 400 grams. If you add 100 grams to it, how much does the box weigh now?
  15. A rope is 30 meters long. If you cut off 15 meters, how long is the remaining rope?
  16. A pencil is 10 centimeters long. If you sharpen off 3 centimeters, how long is the pencil now?
  17. A piece of ribbon is 50 meters long. If you cut off 25 meters, how much ribbon is left?
  18. If a jug holds 3 liters of water and you pour out 1.2 liters, how many liters of water remain in the jug?
  19. A backpack weighs 800 grams. If you add 200 grams of books, how much does the backpack weigh now?
  20. A fish tank holds 10 liters of water. If you remove 3 liters, how many liters are left in the tank?
  21. A flower pot has 2 kilograms of soil. If you remove 500 grams of soil, how much soil is left?
  22. A garden hose is 20 meters long. If you use 7 meters, how much hose is left?
  23. A fruit basket weighs 2 kilograms. If you add 1 kilogram of fruits, how much does the basket weigh now?
  24. A toy box is 30 centimeters long. If you take out 10 centimeters worth of toys, how long is the box now?
  25. If a carton holds 1.5 liters of milk and you drink 0.5 liters, how much milk is left in the carton?