

Estimating Small Collections (Nearest 10) (Worksheet 1)

Estimate each collection to the nearest 10.

1. 23 stars
2. 47 counters
3. 18 dots
4. 52 buttons
5. 34 pencils
6. 61 stickers
7. 76 beads
8. 29 shells
9. 44 marbles
10. 68 cubes
11. 15 apples
12. 83 balloons
13. 27 coins
14. 95 crayons
15. 41 erasers
16. 72 paper clips
17. 39 flowers
18. 64 blocks
19. 58 candies
20. 21 leaves
21. 87 pebbles
22. 46 ribbons
23. 33 toy cars
24. 90 stamps
25. 54 books

Estimating Medium Groups (Nearest 100) (Worksheet 2)

Estimate each amount to the nearest 100.

1. 145 books
2. 282 students
3. 319 chairs
4. 476 pencils
5. 521 balls
6. 689 cards
7. 742 stickers
8. 365 pages
9. 198 apples
10. 254 cups
11. 831 blocks
12. 907 straws
13. 410 boxes
14. 599 leaves
15. 720 shells
16. 816 crayons
17. 932 notebooks
18. 157 markers
19. 264 bottles
20. 378 marbles
21. 483 balloons
22. 695 coins
23. 804 beads
24. 919 toy cars
25. 562 eraser

Estimating Crowds Using Known Numbers (Worksheet 3)

Use the information to estimate the total number of people.

1. 6 classes with about 25 students each
2. 8 rows with about 30 people in each row
3. 10 classes with 22 students each
4. 5 buses carrying about 40 people each
5. 12 tables with about 8 people each
6. 9 rows with 35 people in each row
7. 4 halls with about 120 people each
8. 7 groups of 28 students
9. 15 rows with 20 people each
10. 3 assemblies with about 180 students each
11. 11 classes with about 24 students
12. 6 teams of 15 players
13. 14 tables with 10 people each
14. 9 buses with 45 people each
15. 20 rows with 18 people each
16. 8 classrooms with about 32 students each
17. 13 teams with about 14 players each
18. 5 theatres with about 150 people each
19. 16 rows with 25 people each
20. 7 camps with about 60 students each
21. 12 buses carrying 38 people each
22. 4 events with about 210 guests each
23. 18 tables with about 9 people each
24. 10 groups of 27 students
25. 6 stadium sections with about 300 people each

Choosing the Best Place Value (Worksheet 4)

Circle the best estimate: nearest 10, 100, or 1000.

1. Number of dots on a ladybird
2. Students in a classroom
3. People at a school assembly
4. Audience at a football stadium
5. Books on one shelf
6. Books in a large library
7. Cars in a car park
8. Tiles on a classroom floor
9. People at a concert
10. Counters in a small jar
11. Trees in a park
12. Students in a school
13. Stickers on a page
14. People at a shopping centre
15. Blocks in a toy box
16. Chairs in a classroom
17. Visitors at a zoo in one day
18. Houses in a neighbourhood
19. People at a wedding
20. Seats in a cinema hall
21. Bricks used to build a house
22. Steps in a tall building
23. Fans at a cricket match
24. Pages in a textbook
25. People living in a small town

Estimating Large Numbers Visually (Worksheet 5)

Estimate how much space or material is needed.

1. About how many grid squares would 1,000 blocks fill?
2. Would 20,000 squares fit on one wall? (Yes / No)
3. Which needs more paper: 2,000 or 20,000?
4. Estimate how many pages are needed to show 5,000 dots.
5. Would 10,000 blocks fill a classroom floor?
6. Is 500 closer to 1,000 or 100?
7. Which number takes more space: 8,000 or 800?
8. Estimate the space needed for 12,000 counters.
9. Which needs more wall space: 3,000 or 30,000 squares?
10. Estimate how many sheets are needed for 2,500 squares.
11. Would 900 fit on one chart?
12. Is 15,000 closer to 10,000 or 20,000?
13. Which is larger visually: 6,000 or 60,000?
14. Estimate the space needed for 4,000 tiles.
15. Would 25,000 dots fit on one noticeboard?
16. About how many posters would be needed to show 18,000 stars?
17. Would 7,500 stickers cover a classroom door?
18. Which needs more space: 45,000 or 4,500 counters?
19. Estimate how many boxes are needed to store 9,000 cubes.
20. Would 30,000 beads fill a large container?
21. Is 2,000 closer in size to 1,000 or 10,000?
22. Estimate the wall space needed for 14,000 drawings.
23. Which would cover more floor space: 11,000 tiles or 1,100 tiles?
24. Would 50,000 dots fit in one hallway display?
25. Estimate how many boards are needed to display 6,500 pictures.

Real-Life Estimation Challenges (Worksheet 6)

Estimate sensibly and explain your choice of place value.

1. Estimate $48 + 72$ using rounding.
2. About how many students are in 9 classes of 27?
3. Estimate how many books are in 12 boxes of 45.
4. Is 390 closer to 400 or 300?
5. Estimate 215 people using the nearest 10.
6. Estimate a crowd of 1,850 people.
7. Estimate $63 + 38$.
8. About how many chairs are in 18 rows of 22?
9. Estimate 504 items.
10. Is nearest 100 or 1000 better for estimating people at a concert?
11. Estimate 2,750 people.
12. About how many tiles are in 14 rows of 30 (estimate)?
13. Estimate $97 + 104$.
14. Is nearest 10 a good estimate for 1,200? Why?
15. Estimate the total of 425 and 389.
16. Estimate $86 + 57$ using rounding.
17. About how many students are in 15 classes of 32?
18. Estimate how many apples are in 25 baskets of 18.
19. Is 4,480 closer to 4,000 or 5,000?
20. Estimate 6,390 using the nearest 100.
21. About how many people are in 24 groups of 19?
22. Estimate 1,499 to the nearest 1,000.
23. Estimate $735 + 289$.
24. Is nearest 100 reasonable for 9,950? Why?
25. Estimate 3,620 people using rounding.