

Graphs & Data

Data & Measurement · Grade 3

Score: _____ / 10

★ Hard · 10 Questions

Solve each problem. Show your work in the space provided. Write your answer on the line.

1. On a scaled count, each unit represents 5 items. A column shows 8 units. How many items does that column represent?

Answer: _____

2. A picture symbol stands for 5 books. There are 12 symbols in total across 4 categories.

What is the total number of books?

Answer: _____

3. Weekly sales: Mon=18, Tue=24, Wed=15, Thu=20, Fri=23.
Which day had the highest sales? Which had the lowest?

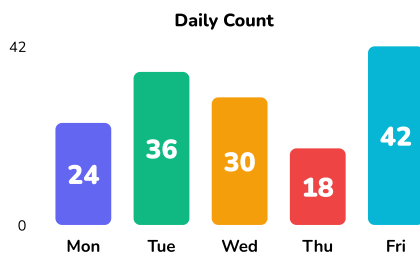
Answer: _____

4. A class records shoe sizes: size 4 appears 2 times, size 5 appears 4 times, size 6 appears 3 times.
How many students were measured in all?

Answer: _____

5. Bar chart: Mon 24, Tue 36, Wed 30, Thu 18, Fri 42.

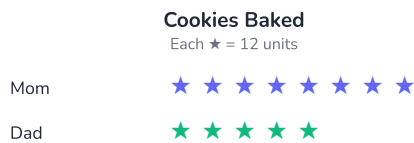
What is the total across all 5 days?



Answer: _____

6. Pictograph: ★ = 12 cookies. Mom baked 8 ★ and Dad baked 5 ★.

How many cookies did they bake together?



Answer: _____

7. Tally chart: Vanilla 32, Chocolate 48, Strawberry 20.

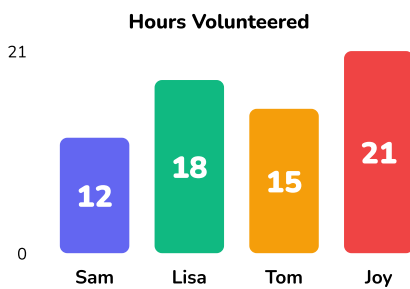
What is the difference between the most and least popular?

Category	Ice Cream Flavors Tally
Vanilla	
Chocolate	
Strawberry	

Answer: _____

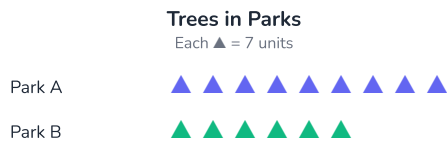
8. Bar chart shows hours volunteered: Sam 12, Lisa 18, Tom 15, Joy 21.

What is the total number of hours?



Answer: _____

9. Pictograph: ▲ = 7 trees. Park A has 9 ▲. Park B has 6 ▲.
How many trees in total?



Answer: _____

10. Survey of 120 students: Sports 45, Music 30, Art 25, Drama 20.
How many more chose Sports than Drama?

Answer: _____

Answer Key

Graphs & Data — Hard

1. **40**

$8 \text{ units} \times 5 \text{ items per unit} = 40 \text{ items.}$

2. **60 books**

$12 \text{ symbols} \times 5 \text{ books per symbol} = 60 \text{ books.}$

3. **Tuesday highest (24); Wednesday lowest (15).**

Compare values. Largest: Tue (24). Smallest: Wed (15).

4. **9 students**

$Total = 2 + 4 + 3 = 9 \text{ students.}$

5. **150**

$24 + 36 + 30 + 18 + 42 = 150.$

6. **156**

$(8 + 5) \times 12 = 13 \times 12 = 156.$

7. **28**

$48 - 20 = 28.$

8. **66**

$12 + 18 + 15 + 21 = 66 \text{ hours.}$

9. **105**

$(9 + 6) \times 7 = 15 \times 7 = 105 \text{ trees.}$

10. **25**

$45 - 20 = 25 \text{ more.}$