

## Graphs & Data

Data & Measurement · Grade 4

◆ Medium · 10 Questions

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

1. From a class survey:

Dogs: 12

Cats: 9

Rabbits: 3

Birds: 6

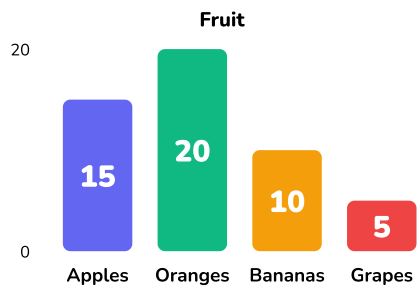
What fraction of students prefer dogs? (write as a fraction)

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|  |

Answer: \_\_\_\_\_

2. Bar chart: Apples=15, Oranges=20, Bananas=10, Grapes=5.

What is the difference between the most and the least?



Answer: \_\_\_\_\_

3. Sports survey of 50 students: Soccer=20, Basketball=15, Tennis=10, Swimming=5.

What fraction chose Soccer?

Answer: \_\_\_\_\_

4. Weekly rainfall (mm): Mon=12, Tue=8, Wed=15, Thu=10, Fri=5.  
What is the total weekly rainfall?

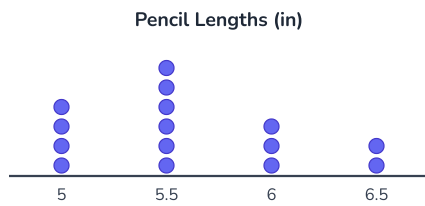
Answer: \_\_\_\_\_

5. Pictograph: each star = 5 books. Library A: 7 stars; Library B: 9 stars.  
How many more books in Library B?



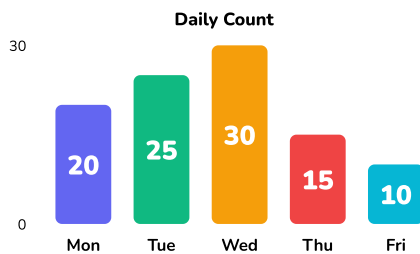
Answer: \_\_\_\_\_

6. Line plot of pencil lengths (inches): 4 at 5", 6 at 5½", 3 at 6", 2 at 6½".  
How many pencils were measured?



Answer: \_\_\_\_\_

7. Bar chart: Mon=20, Tue=25, Wed=30, Thu=15, Fri=10.  
What was the average?



Answer: \_\_\_\_\_

8. A pictograph uses 1 symbol = 10 students. Grade 4 has 8 symbols.  
How many Grade 4 students?

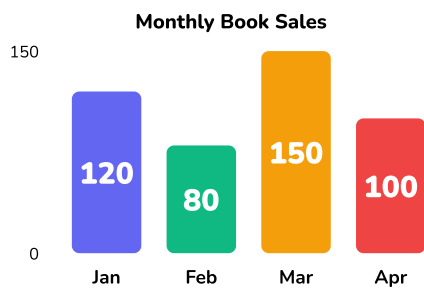


Answer: \_\_\_\_\_

9. Pets in classroom: Dog=14, Cat=6, Bird=4, Fish=2.  
What fraction are cats?

Answer: \_\_\_\_\_

10. Bar chart shows monthly book sales: Jan=120, Feb=80, Mar=150, Apr=100.  
How many more in March than February?



**Answer:** \_\_\_\_\_

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## Answer Key

### Graphs & Data — Medium

1.  $12/30 = 2/5$

Total:  $12 + 9 + 3 + 6 = 30$  students. Fraction for dogs:  $12/30 = 2/5$ .

2.  $15$

$$20 - 5 = 15.$$

3.  $20/50 = 2/5$

20 out of 50 =  $2/5$ .

4.  $50 \text{ mm}$

$$12 + 8 + 15 + 10 + 5 = 50.$$

5.  $10$

$$9 \times 5 - 7 \times 5 = 45 - 35 = 10.$$

6.  $15$

$$4 + 6 + 3 + 2 = 15.$$

7.  $20$

$$(20 + 25 + 30 + 15 + 10) \div 5 = 100 \div 5 = 20.$$

8.  $80$

$$8 \times 10 = 80.$$

9.  $6/26 = 3/13$

Total =  $14 + 6 + 4 + 2 = 26$ . Cats:  $6/26 = 3/13$ .

10.  $70$

$$150 - 80 = 70.$$