Scaled Picture and Bar Graphs

Explore ideas and representations

Name _____ **Date** _____ **Score** _____ / 6

QUICK REVIEW

Read the key before counting symbols or bar intervals. With 1 square $= 2$ points, 4 squares mean $4 \times 2 = 8$ points. On a bar graph labeled $0, 5, 10, 15$, each interval means 5, not 1. To compare 15 and 10, subtract $15 - 10 = 5$.

Worked example

Use the picture-graph key. Find Red points and Green points.

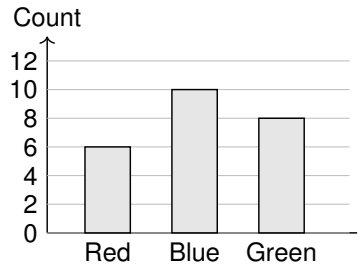
Team	Each square = 2 points
Red	□ □
Blue	□ □ □
Green	□ □ □ □

1. Red has 2 symbols, each worth 2: $2 \times 2 = 4$ points.
2. Green has 4 symbols: $4 \times 2 = 8$ points.
Answer: Red 4; Green 8 points.

Practice Problems

Show your thinking.

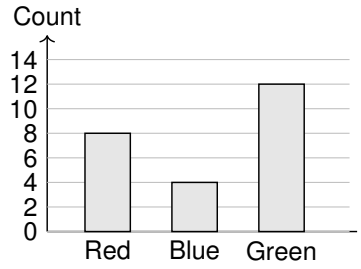
1. Read the bar graph. How many points does Blue have? Explain the scale.



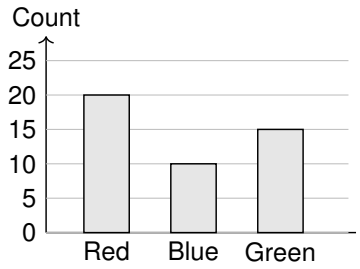
2. Use the picture-graph key. Find Red points and Green points.

Team	Each square = 5 points
Red	□ □ □
Blue	□ □
Green	□ □ □ □

3. Find the points for all three teams together.

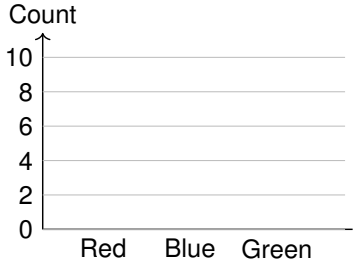


4. How many more points does the highest-scoring team have than the lowest-scoring team?



5. Use the table to draw all three bars on the blank graph. Start each bar at 0.

Team	Points
Red	4
Blue	8
Green	6



6. Kim counts 2 Red symbols and reports 2 points. Correct the report using the key.

Team	Each square = 5 points
Red	□ □
Blue	□ □ □
Green	□

Answer Key

1. 10 points.
2. Red 15; Green 20 points.
3. 24 points.
4. 10 points.
5. Bars: Red 4, Blue 8, Green 6.
6. Red has 10 points.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. The vertical labels increase by 2 points at each interval.
2. The Blue bar reaches 5 intervals, so $5 \times 2 = 10$ points.

Problem 2

1. Red has 3 symbols, each worth 5: $3 \times 5 = 15$ points.
2. Green has 4 symbols: $4 \times 5 = 20$ points.

Problem 3

1. Red and Blue together have $8 + 4 = 12$ points.
2. Add Green: $12 + 12 = 24$ points.

Problem 4

1. The largest value is 20 points; the smallest is 10 points.
2. Subtract: $20 - 10 = 10$ points.

Problem 5

1. The scale is 2 per interval. Red needs $4 \div 2 = 2$ intervals.
2. Blue needs $8 \div 2 = 4$ and Green needs $6 \div 2 = 3$ intervals. Draw the bars to those heights.

Problem 6

1. One symbol means 5 points, not 1 point.
2. 2 symbols mean $2 \times 5 = 10$ points.

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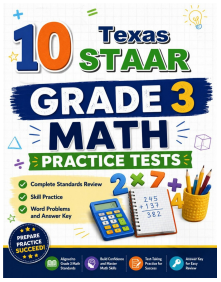

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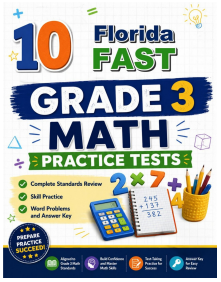

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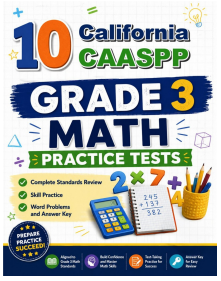

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