

7. Part A. Draw a quadrilateral that has at least one pair of parallel sides and at least one right angle. Label the vertices of the quadrilateral J , K , L , and M .
- Part B. Identify which sides are parallel to each other and which angles are right angles.

Place an "X" in the answer box below.

Answer the question on the Response Document provided.

Click next.

Scoring Instructions:

2 Points

Work demonstrates a **clear and complete** understanding of the mathematical concepts and/or procedures required by the task. Appropriate strategy is shown with clear and complete explanations and interpretations.

1 Point

Response demonstrates a **partial** understanding of the mathematical concepts and/or procedures. Appropriate strategy is shown, but explanation or interpretation has minor flaws.
OR

Response is incorrect because of calculation errors. Work and strategy indicate a clear understanding of the mathematical concepts and/or procedures required by the task.

0 Points

Response is irrelevant, inappropriate, or not provided.

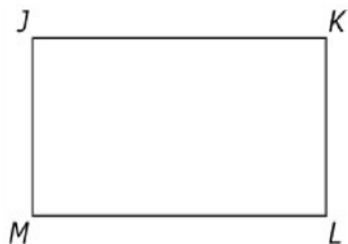
**SCORING
EXEMPLAR**

Maximum Points – 2

Part A - 1 point

Answers will vary

The drawing must be a quadrilateral with vertices labeled J , K , L , and M . The quadrilateral must have *at least* 1 pair of parallel sides and *at least* 1 right angle.



OR other acceptable drawings that meet the criteria

Part B - 1 point

\overline{JM} and \overline{KL} are parallel to each other.

\overline{ML} and \overline{JK} are parallel to each other.

All four angles are right angles.

OR other acceptable answer or explanation based on answer from Part A.

8. Write the following fractions in order from **least** to **greatest**.

$$\frac{5}{6}, \frac{1}{2}, \frac{5}{12}, \frac{2}{3}$$

Scoring Instructions:

$$\frac{5}{12}, \frac{1}{2}, \frac{2}{3}, \frac{5}{6}$$

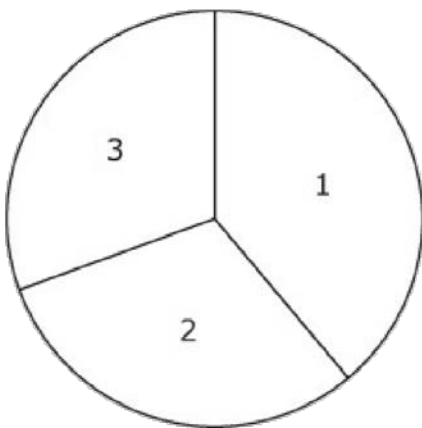
OR equivalent

9. What are the factors of 30?

Scoring Instructions:

1, 2, 3, 5, 6, 10, 15, 30 OR equivalent

12. Three landscapers are planting flowers in a section of a large circular garden. The landscapers divided the garden by making angles from the center of the garden to the outer edge of the garden, as shown below.



Which section of the garden has the largest angle? Justify your answer.

Scoring Instructions:

Scoring Rubric

- 2 Work demonstrates a clear and complete understanding of the mathematical concepts and/or procedures required by the task. Appropriate strategy is shown with clear and complete explanations and interpretations.
- 1 Response demonstrates a partial understanding of the mathematical concepts and/or procedures. Appropriate strategy is shown, but explanation or interpretation has minor flaws

OR

Response is incorrect because of calculation errors. Work and strategy indicate a clear understanding of the mathematical concepts and/or procedures required by the task.

- 0 Response is irrelevant, inappropriate, or not provided.

SCORING EXEMPLAR**Maximum Points – 2****Part A – 1 point**

Student replies that Section 1 has the largest angle.

Part B – 1 point

Student explains reasoning.

Sample explanation

Section 1 of the garden is larger than the other two sections, so the angle of Section 1 is the largest angle.

or other appropriate explanation

13. A theater sold 90 tickets for a comedy movie. It sold 8 times that number of tickets for a cartoon movie.

Part A. Write a multiplication equation that could be used to find the number of tickets sold for the cartoon movie.

Part B. The theater manager wrote the equation $90 \times 3 = ?$ to find the number of tickets sold for a mystery movie. Explain what this equation tells you about the number of tickets sold for the mystery movie as compared to the number of tickets sold for the comedy movie. Use the words "as many" in your answer.

Scoring Instructions:

Scoring
Rubric

Work demonstrates a **clear and complete** understanding of the mathematical concepts and/or procedures required by the task.

- 2 Appropriate strategy is shown with clear and complete explanations and interpretations.

Response demonstrates a **partial** understanding of the mathematical concepts and/or procedures. Appropriate strategy is shown, but explanation or interpretation has minor flaws.

- 1 OR

Response is incorrect because of calculation errors. Work and strategy indicate a **clear** understanding of the mathematical concepts and/or procedures required by the task.

- 0 Response is irrelevant, inappropriate, or not provided.

SCORING EXEMPLAR

Maximum Points—2

Part A—1 point

- $90 \times 8 = ?$ or $90 \times 8 = 720$

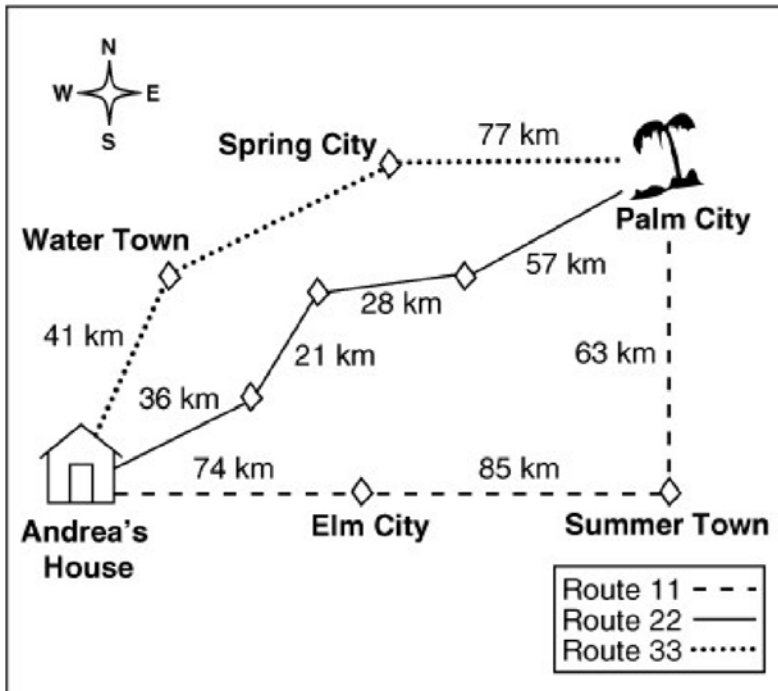
or equivalent work

Part B—1 point

- This shows that the theater sold three times as many tickets to the mystery movie as it did to the comedy movie.

or equivalent work

18. Andrea is going on vacation with her family to Palm City. The map below shows three different routes her family can take to get there.



Part A. Andrea's dad told her that total distance of Route 33 from their house to Palm City is 192,000 meters. How many kilometers long is Route 33?

Part B. What is the distance between Water Town and Spring City in kilometers?

Part C. Which route should Andrea's family members choose if they want to travel the shortest distance from their house to Palm City? Explain.

Part D. Andrea's mom decides that they will take Route 11 to get to Palm City so that they can visit her friend in Summer Town. If it took them 534 minutes to get to Palm City and they spent $2\frac{1}{2}$ hours visiting in Summer Town, how long was Andrea's family traveling in their car on Route 11 in hours and minutes? Explain.

Scoring Instructions:

Teacher Directions:

Review the concepts of measurements and reading a map.

Explain the instructions of the task below.

Allow 15 to 20 minutes for the exercises below.

Suggested Materials: Paper, pencil, printed map

SCORING

EXEMPLAR

Maximum Points—6

Part A—[1 point]

- Correctly converts 192,000 meters to 192 kilometers.
- $192,000 \div 1000 = 192$

or equivalent work

Part B—[1 point]

- 74 kilometers
- $41 + 77 = 118$ and $192 - 118 = 74$

OR

- $192 - 41 - 77 = 74$

or equivalent work

Part C—[2 points]

- [1 point] Correctly calculates that Route 22 is the shortest distance from Andrea's home to Palm City.
- [1 point] Shows/explains work used to get answer
- Route 11: $74 + 85 + 63 = 222$ kilometers
- Route 22: $36 + 21 + 28 + 57 = 142$ kilometers
- Route 33: $41 + 74 + 77 = 192$ kilometers

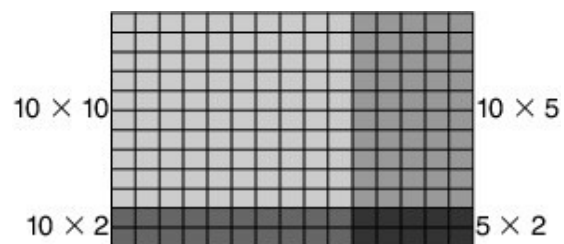
or equivalent work

Part D—[2 points]

- [1 point] Correctly calculates that they spent 6 hours and 24 minutes traveling in their car from their home to Palm City.
- [1 point] Shows/explains work used to get answer
- First, convert $2\frac{1}{2}$ hours into minutes to find how long the family spent at the family friend's house. $(2 \times 60) + (\frac{1}{2} \times 60) = 120 + 30 = 150$
- Then, subtract from the total time it took them to get from their house to Palm City. $534 - 150 = 384$ minutes
- Convert 384 minutes to hours and minutes. $384 \div 60 = 6$ hours 24 minutes

or equivalent work

20. The multiplication of which two numbers is shown in the area diagram?



Scoring Instructions:

12 and 15

OR equivalent