**Choose Your Own Adventure 🡪 Geometry and Measurement**

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| Concept 1: Geometry and Measurement |
| Beginning | Developing | Accomplished | Exemplary |
| Does not demonstrate a basic understanding of concept. Substantial errors throughout. | Basic understanding of concepts. Errors and inconsistency reveal some missing understanding of the concepts.  | Solid understanding of concepts. Most answers are correct with only a few errors.  | Complete and in depth understanding of concepts.  |



1. Which line segments are parallel? Circle them in this picture:
2. What word describes lines that intersect (cross) at 90°
3. Angle bisector b) line segment c) perpendicular d) parallel
4. Determine the area of the parallelogram shown. Area of a triangle = (bxh)÷2

 Area of a rectangle = l x w



**Choose Your Own Adventure 🡪 Circles**

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| Concept 2:Circles |
| Beginning | Developing | Accomplished | Exemplary |
| Does not demonstrate a basic understanding of concept. Substantial errors throughout. | Basic understanding of concepts. Errors and inconsistency reveal some missing understanding of the concepts.  | Solid understanding of concepts. Most answers are correct with only a few errors.  | Complete and in depth understanding of concepts.  |

**Circumference = 2 л r or C = d Area = л r 2**

1. What is the diameter of the circle shown?



1. What is the circumference of a circle with a radius of 3 m?
2. What is the area of a circle with a diameter of 4 cm?

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| Concept 8: Integers |
| Beginning | Developing | Accomplished | Exemplary |
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1.  If the shaded circles represent negatives, and the open circles represent positives, what is the answer to the following addition question?
2. Subtract (–7) – (–8).
3. Michel opened an ice-cream cart at the beach. During his first week, he gave away free samples, and lost $120. During the second week, he made a profit of $180. Determine Michel's total profit or loss over the first two weeks of operation.
4. The temperature in Whitehorse, Yukon was –12º C at noon. By midnight, the temperature had dropped by 14º C. What was the temperature at midnight?

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| **Concept 9: Patterns and Expressions** |
| Beginning | Developing | Accomplished | Exemplary |
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1. A canoe rental at Crystal Lake Marina costs $10 plus $5 per hour. What is the cost of renting a canoe for 3 hours?
2. Ben has *b* dollars in his bank account. Nelida has $10 less than twice as much. Write an expression (using numbers and variables) that models the amount in Nelida's account.
3. Which table of values matches the graph









 

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| **Concept 10 :Solving Equations** |
| Beginning | Developing | Accomplished | Exemplary |
| Does not demonstrate a basic understanding of concept. Substantial errors throughout. | Basic understanding of concepts. Errors and inconsistency reveal some missing understanding of the concepts.  | Solid understanding of concepts. Most answers are correct with only a few errors.  | Complete and in depth understanding of concepts.  |

32. What is the solution to *x* – 2 = 5?

1. Which of these equations has the solution *a* = 3?
2. *a* + 1 = 2
3. *a* + 1 = –2
4. *a* – 1 = 2
5. *a* + 2 = 1
6. Jay is painting his cottage yellow with blue trim. He calculates that he needs 5 more cans of yellow than blue. He bought a total of 25 cans at the paint store. Let *b* represent the number of cans of blue paint. Which equation models this situation?
7. *b* +*b* + 5 = 25
8. *b* + 5*b* = 25
9. *b* + 25*b* = 5
10. 5*b* = 25

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| Concept 11 :Working with Data  |
| Beginning | Developing | Accomplished | Exemplary |
| Does not demonstrate a basic understanding of concept. Substantial errors throughout. | Basic understanding of concepts. Errors and inconsistency reveal some missing understanding of the concepts.  | Solid understanding of concepts. Most answers are correct with only a few errors.  | Complete and in depth understanding of concepts.  |

1. The number of contracts for the Heavy Rock Paving company each month for the past year are shown. What is the **mean** number of contracts per month?



1. What is the mode in the above data?
2. The lowest value in a data set is 5.6. The range is 3.8. What is the highest value?
3. Sunjay received a mean of 70% in mathematics. He recalled that four of his tests had marks of 70%, 72%, 78%, and 68%. What was the mark on the fifth test?