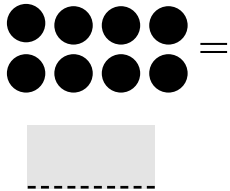

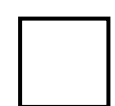
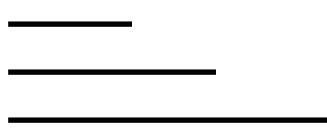
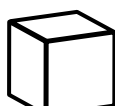


Mathematics Inventory*

<p>1-1.</p> $5 + 2 = \boxed{}$	<p>1-2.</p> $\begin{array}{r} 8 \\ + 9 \\ \hline \boxed{} \end{array}$	<p>1-3.</p> $7 - 3 = \boxed{}$
<p>1-4.</p> $\begin{array}{r} 14 \\ - 7 \\ \hline \boxed{} \end{array}$	<p>1-5.</p> 	<p>1-6.</p> <p>12, 13, $\boxed{}$, 15, 16</p>
<p>1-7.</p> <p>What comes next?</p>  <p>$\boxed{}$</p>	<p>1-8.</p>  <p>This is a</p> <p>a. circle b. square c. triangle</p> <p>$\boxed{}$</p>	<p>1-9.</p> <p>What comes next?</p> <p>50, 60, 70, 80, $\boxed{}$</p>
<p>1-10.</p> <p>57, 56, 55, $\boxed{}$, 53</p>	<p>1-11.</p> <p>Circle the line that is the longest.</p> 	<p>1-12.</p>  <p>This is a</p> <p>a. cube b. cylinder c. sphere</p> <p>$\boxed{}$</p>

* Source: Adapted with permission from the Pembina Trails School Division and the St. James-Assiniboia School Division.

2-1.

$$9 + 9 = \square$$

2-2.

1 week
= \square days

2-3.

12, 22, \square , 42, 52

2-4.

$$\begin{array}{r} 64 \\ + 13 \\ \hline \square \end{array}$$

2-5.

$$\begin{array}{r} 35 \\ + 46 \\ \hline \square \end{array}$$

2-6.

$$\begin{array}{r} 76 \\ - 21 \\ \hline \square \end{array}$$

2-7.

$$\begin{array}{r} 80 \\ - 57 \\ \hline \square \end{array}$$

2-8.

11, 14, 23, 26

a. odd numbers

\square

b. even numbers

\square

2-9.

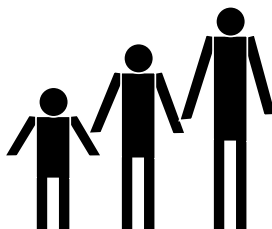
73 = \square tens
+ \square ones

2-10.

3, 7, 11, \square , 19

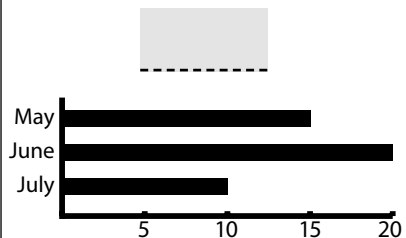
2-11.

Which person is the shortest?



2-12.

How many goals did Juan score in June?



3-1.

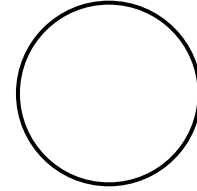
$$\begin{array}{r} 175 \\ + 354 \\ \hline \end{array}$$

3-2.

$$\begin{array}{r} 703 \\ - 526 \\ \hline \end{array}$$

3-3.

Shade 1/2 of the circle.



3-4.

125, 100, , 50, 25

3-5.

6, 9, , 15, 18

3-6.

612 = hundreds
 + tens
 + ones

3-7.

$$3 \times 4 = \text{_____}$$

3-8.

$$8 \div 2 = \text{_____}$$

3-9.

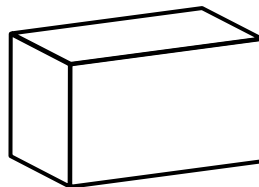
$$\text{_____} + 8 = 15$$

3-10.

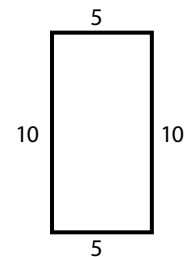
The football game started at 2:30 p.m. and ends at 3:45 p.m. How long was the game?

3-11.

How many vertices?



3-12.



Perimeter =

4-1.

Write in order from smallest to largest.

$$\frac{1}{3} \quad \frac{1}{8} \quad \frac{1}{2}$$

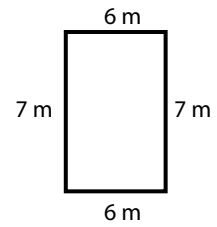
4-2.

Shade $\frac{3}{4}$ of the rectangle.



4-3.

Calculate the area.



Area = _____

4-4.

Solve for n .

$$14 - n = 9$$

$$n = \text{_____}$$

4-5.

$\frac{1}{2}$ is

a. 0.50

b. 0.12

c. 0.20

4-6.

$$7 \times 8 = \text{_____}$$

4-7.

$$72 \div 9 = \text{_____}$$

4-8.

$$1.3 + 3.4 = \text{_____}$$

4-9.

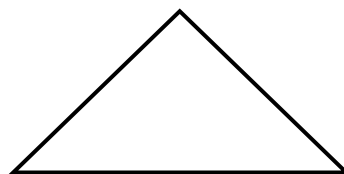
$$7.61 + 2.5 = \text{_____}$$

4-10.

$$5.6 - 2.12 = \text{_____}$$

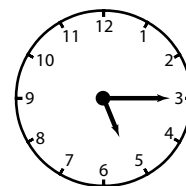
4-11.

Draw a line of symmetry.



4-12.

What time is it?



_____ : _____

5-1.

Reduce:

$$\frac{20}{25} = \frac{\square}{5}$$

5-2.

$$\begin{array}{r} 52 \\ \times 21 \\ \hline \square \end{array}$$

5-3.

Fill in the circle.

<, >, or =

$$\frac{3}{4} \bigcirc \frac{3}{5}$$

5-4.

$$\begin{array}{r} \square \\ 6 \overline{)2844} \end{array}$$

5-5.

Solve for y.

$$3y = 15$$

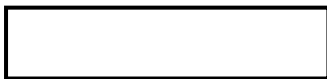
$$y = \square$$

5-6.

Draw 2 parallel lines.

5-7.

This rectangle has a perimeter of 32 m. What are the lengths of each side?



5-8.

Name something that is 5 cm long.



5-9.

Name something that is 1 litre.



5-10.

$$1 \text{ m} = \square \text{ cm}$$

5-11.

How many ten thousands in 346 524?



5-12.

nine hundred fifty two thousand eight hundred thirty one =



6-1.

How many millions
in 13 452 300?

6-2.

Simplify.

$$5 + 4 \times 6 - 1 = \underline{\hspace{2cm}}$$

6-3.

List all the factors
of 18.

6-4.

Convert to mixed fraction.

$$\frac{35}{30} = 1 \frac{\square}{\square}$$

6-5.

$$\underline{\hspace{2cm}} \% = \frac{4}{5}$$

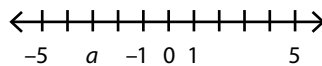
6-6.

$$2.47 \times 10 = \underline{\hspace{2cm}}$$

6-7.

$$31.9 \div \underline{\hspace{2cm}} = 0.319$$

6-8.



$$a = \underline{\hspace{2cm}}$$

6-9.

$$\text{If } a = 5 \\ 2a + 3 = \underline{\hspace{2cm}}$$

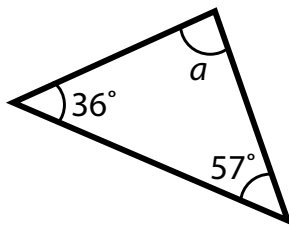
6-10.

What is the formula
for this chart?

$$\underline{\hspace{2cm}} n + \underline{\hspace{2cm}}$$

n	$\underline{\hspace{2cm}} n + \underline{\hspace{2cm}}$
3	7
4	9
5	11

6-11.



$$a = \underline{\hspace{2cm}}$$

6-12.



$$x = \underline{\hspace{2cm}}$$

7-1.

Write in order from smallest to largest.

0.7 $\frac{1}{2}$ $\frac{3}{5}$ 0.2

7-2.

Write in numeric order.

-2 0 -5 +5 +2

7-3.

$(-3) + (+6)$

= _____

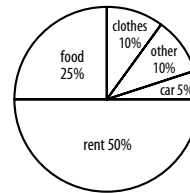
7-4.

$(-5) + (-7)$

= _____

7-5.

Tom's family makes \$2000 a month. How much do they spend on food?



7-6.

$1\frac{3}{4} + 2\frac{2}{5}$

= _____

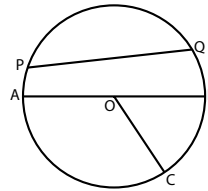
7-7.

$\frac{18}{4} - 1\frac{2}{8}$

= _____

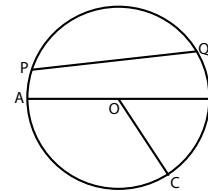
7-8.

Which line is the diameter?



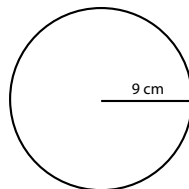
7-9.

Which line is the radius?



7-10.

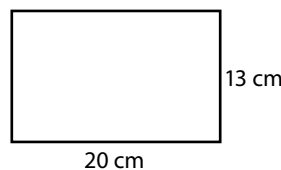
What is the area of the circle? Area = πr^2



Area = _____

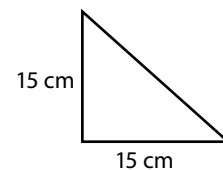
7-11.

What is the area of the rectangle?



7-12.

What is the area of the triangle?



8-1.

$$\sqrt{49}$$

$$= \underline{\hspace{2cm}}$$

8-2.

$$1\frac{3}{5} \div \frac{2}{4}$$

$$= \underline{\hspace{2cm}}$$

8-3.

$$(-8) \times (-4)$$

$$= \underline{\hspace{2cm}}$$

8-4.

$$3^2 = \underline{\hspace{2cm}}$$

8-5.

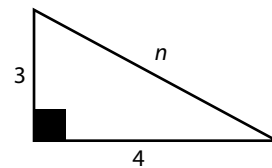
Solve for x:

$$2(x + 3) = 4$$

$$x = \underline{\hspace{2cm}}$$

8-6.

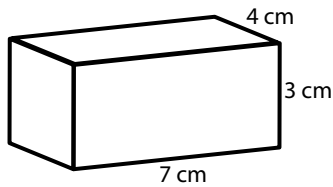
Find the hypotenuse:



$$n = \underline{\hspace{2cm}}$$

8-7.

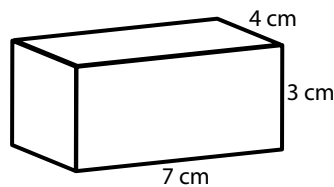
Find the surface area of:



$$\text{Surface Area} = \underline{\hspace{2cm}}$$

8-8.

Find the volume of:



$$\text{Volume} = \underline{\hspace{2cm}}$$

8-9.

Solve for x:

$$\frac{2x}{3} + 5 = 17$$

$$x = \underline{\hspace{2cm}}$$

9-1.

Simplify:
 $(x^2)(x^5)$

9-2.

Simplify:
 $(x^3)^2$

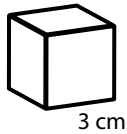
9-3.

Circle the largest value:

$-\frac{3}{5}$ -0.67 -0.5

9-4.

Find the surface area of this cube:



9-5.

$$\frac{3}{5} = \frac{9}{x}$$

$x =$ _____

9-6.

Simplify:

$$\sqrt{\frac{25}{16}}$$

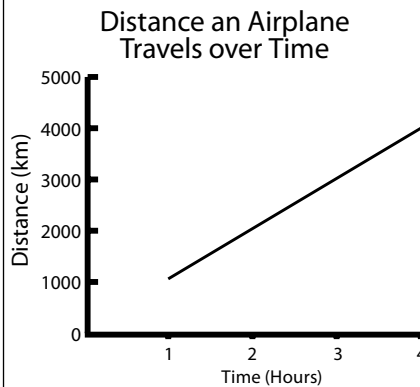
9-7.

If $b = 4$, then determine:

$$7b - 38$$

9-8.

What is the distance when time = 2 hours?



9-9.

Calculate:

$$6^2 + 2^3$$

9-10.

Simplify:

$$\frac{a^7 x^4 y^0}{a^4 x^3}$$

9-11.

Divide:

$$\frac{5x^3 + 10x^2}{5x}$$

9-12.

Factor:

$$3x^3 - 12x$$

_____ (_____ - _____)

9-13.

Multiply:

$$(7b^2)(b-2)$$

9-14.

Solve for p :

$$-5(p+3) = -5(2p+5)$$

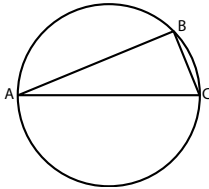
9-15.

Simplify:

$$(3x^2 + 5x) + (2x^2 - x)$$

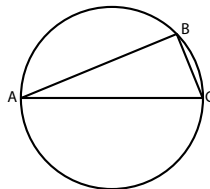
9-16.

Which angle is closest to 90° ?



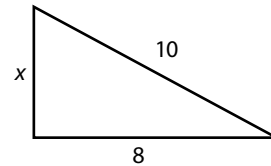
9-17.

Which angle is the smallest angle?

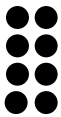
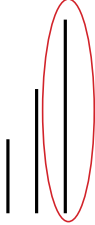

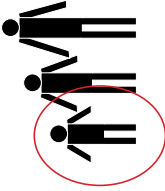

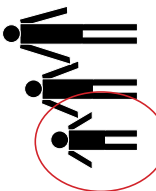
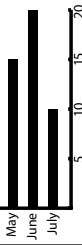


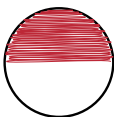

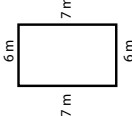
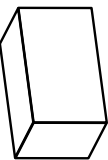
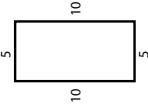
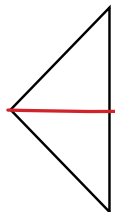

9-18.


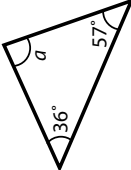
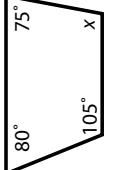
Find the value of x :



Mathematics Inventory Answer Key


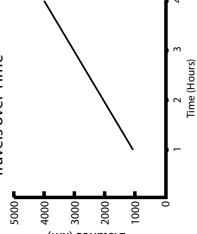
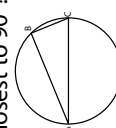
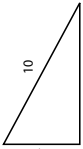
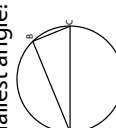
1-1. $5 + 2 = \underline{7}$	1-2. $\begin{array}{r} 8 \\ + 9 \\ \hline 17 \end{array}$	1-3. $7 - 3 = \underline{4}$	2-1. $9 + 9 = \underline{18}$	2-2. 1 week = $\underline{7}$ days	2-3. 12, 22, $\underline{32}$, 42, 52
1-4. $\begin{array}{r} 14 \\ - 7 \\ \hline 7 \end{array}$	1-5.  = $\underline{8}$	1-6. 12, 13, $\underline{14}$, 15, 16	2-4. $\begin{array}{r} 64 \\ + 13 \\ \hline 77 \end{array}$	2-5. $\begin{array}{r} 35 \\ + 46 \\ \hline 81 \end{array}$	2-6. $\begin{array}{r} 76 \\ - 21 \\ \hline 55 \end{array}$
1-7. What comes next? 	1-8. This is a  . a. circle b. square c. triangle \underline{b}	1-9. What comes next? 50, 60, 70, 80, $\underline{90}$	2-7. $\begin{array}{r} 80 \\ - 57 \\ \hline 23 \end{array}$	2-8. 11, 14, 23, 26 a. odd numbers $\underline{11, 23}$ b. even numbers $\underline{14, 26}$	2-9. $73 = \underline{7}$ tens + $\underline{3}$ ones
1-10. 57, 56, 55, $\underline{54}$, 53	1-11. Circle the line that is the longest. 	1-12.  This is a a. cube b. cylinder c. sphere \underline{a}	2-10. 3, 7, 11, $\underline{15}$, 19	2-11. Which person is the shortest? 	2-12. How many goals did Juan score in June? $\underline{20}$ 

<p>3-1.</p> $\begin{array}{r} 175 \\ + 354 \\ \hline 529 \end{array}$	<p>3-2.</p> $\begin{array}{r} 703 \\ - 526 \\ \hline 177 \end{array}$	<p>3-3.</p> <p>Shade $\frac{1}{2}$ of the circle.</p> 	<p>4-1.</p> <p>Write in order from smallest to largest.</p> <p>$\frac{1}{3}$ $\frac{1}{8}$ $\frac{1}{2}$</p> <p>$\frac{1}{8}$ $\frac{1}{3}$ $\frac{1}{2}$</p>	<p>4-2.</p> <p>Shade $\frac{3}{4}$ of the rectangle.</p> 	<p>4-3.</p> <p>Calculate the area.</p>  <p>Area = 42 m^2</p>
<p>3-4.</p> <p>125, 100, 75, 50, 25</p>	<p>3-5.</p> <p>6, 9, 12, 15, 18</p>	<p>3-6.</p> <p>$612 = 6$ hundreds $+ 1$ tens $+ 2$ ones</p>	<p>4-4.</p> <p>Solve for n.</p> <p>$14 - n = 9$</p> <p>$n = 5$</p>	<p>4-5.</p> <p>$\frac{1}{2}$ is</p> <p>a. 0.50 b. 0.12 c. 0.20</p> <p>a</p>	<p>4-6.</p> <p>$7 \times 8 = 56$</p>
<p>3-7.</p> <p>$3 \times 4 = 12$</p>	<p>3-8.</p> <p>$8 \div 2 = 4$</p>	<p>3-9.</p> <p>$7 + 8 = 15$</p>	<p>4-7.</p> <p>$72 \div 9 = 8$</p>	<p>4-8.</p> <p>$1.3 + 3.4 = 4.7$</p>	<p>4-9.</p> <p>$7.61 + 2.5 = 10.11$</p>
<p>3-10.</p> <p>The football game started at 2:30 p.m. and ends at 3:45 p.m. How long was the game?</p> <p>$1 \text{ hour } 15 \text{ minutes}$</p>	<p>3-11.</p> <p>How many vertices?</p>  <p>8</p>	<p>3-12.</p>  <p>Perimeter = 30</p>	<p>4-10.</p> <p>$5.6 - 2.12 = 3.48$</p>	<p>4-11.</p> <p>Draw a line of symmetry.</p> 	<p>4-12.</p> <p>What time is it?</p>  <p>$5 : 15$</p>

5-1. Reduce: $\begin{array}{r} 20 \\ 25 \end{array} = \frac{4}{5}$	5-2. $\begin{array}{r} 52 \\ \times 21 \\ \hline 1092 \end{array}$	5-3. Fill in the circle. $\frac{3}{4} > \frac{3}{5}$	6-1. How many millions in 13 452 300? 3 or 13	6-2. Simplify. $5 + 4 \times 6 - 1 = 28$	6-3. List all the factors of 18. 1, 18, 2, 9, 3, 6								
5-4. $\begin{array}{r} 474 \\ 6 \overline{)2844} \end{array}$	5-5. Solve for y . $3y = 15$ $y = 5$	5-6. Draw 2 parallel lines. 	6-4. Convert to mixed fraction. $\frac{35}{30} = 1 \frac{1}{6}$	6-5. $80\% = \frac{4}{5}$	6-6. $2.47 \times 10 = 24.7$								
5-7. This rectangle has a perimeter of 32 m. What are the lengths of each side? <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div>	5-8. Name something that is 5 cm long. <i>finger, crayon, or any reasonable answer</i>	5-9. Name something that is 1 litre. <i>water bottle, milk carton, or any reasonable answer</i>	6-7. $31.9 \div 100 = 0.319$	6-8. $a = -3$ $\leftarrow + + + + + + + + + + + + + + + \rightarrow$ $-5 \quad a \quad -1 \quad 0 \quad 1 \quad 5$	6-9. If $a = 5$ $2a + 3 = 13$								
5-10. $1 \text{ m} = 100 \dots \text{ cm}$	5-11. How many ten thousands in 346 524? 4 or 34	5-12. nine hundred fifty two thousand eight hundred thirty one = 952 831	6-10. What is the formula for this chart? $2n + 1$ <table border="1" style="margin-top: 5px;"> <thead> <tr> <th>n</th> <th>$2n + 1$</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>7</td> </tr> <tr> <td>4</td> <td>9</td> </tr> <tr> <td>5</td> <td>11</td> </tr> </tbody> </table>	n	$2n + 1$	3	7	4	9	5	11	6-11.  $a = 87$	6-12.  $x = 100$
n	$2n + 1$												
3	7												
4	9												
5	11												

*Possible answers include:
 1, 15, 1, 15 2, 14, 2, 14
 3, 13, 3, 13 4, 12, 4, 12,
 or any reasonable combination demonstrating an understanding of the perimeter of a rectangle

7-1. Write in order from smallest to largest. $0.7 \quad \frac{1}{2} \quad \frac{3}{5} \quad 0.2$ $0.2, \frac{1}{2}, \frac{3}{5}, 0.7$	7-2. Write in numeric order. $-2 \quad 0 \quad -5 \quad +5 \quad +2$ $-5, -2, 0, +2, +5$	7-3. $(-3) + (+6)$ $= 3$	8-1. $\sqrt{49}$ $= 7$	8-2. $1\frac{3}{5} \div \frac{2}{4}$ $= 3\frac{1}{5}$ or $3\frac{2}{10}$	8-3. $(-8) \times (-4)$ $= 32$
7-4. $(-5) + (-7)$ $= -12$	7-5. Tom's family makes \$2000 a month. How much do they spend on food? $\$500.$	7-6. $1\frac{3}{4} + 2\frac{2}{5}$ $= 4\frac{3}{20}$	8-4. $3^2 = 9$	8-5. Solve for x: $2(x + 3) = 4$ $x = -1$	8-6. Find the hypotenuse: $n = 5$
7-7. $\frac{18}{4} - 1\frac{2}{8}$ $= 3\frac{2}{8}$ or $3\frac{1}{4}$	7-8. Which line is the diameter? AB	7-9. Which line is the radius? OA, OB, OC	8-7. Find the surface area of: Surface Area = 122 cm^2	8-8. Find the volume of: Volume = 84 cm^3	8-9. Solve for x: $\frac{2x}{3} + 5 = 17$ $x = 18$
7-10. What is the area of the circle? Area = πr^2 Area = 254.47 cm^2	7-11. What is the area of the rectangle? 260 cm^2	7-12. What is the area of the triangle? 112.5 cm^2			

<p>9-1. Simplify: $(x^2)(x^5)$</p> <p>x^7</p>	<p>9-2. Simplify: $(x^3)^2$</p> <p>x^6</p>	<p>9-3. Circle the largest value: $-\frac{3}{5}$ -0.67 -0.5</p>	<p>9-10. Simplify: $\frac{a^7 x^4 y^0}{a^4 x^3}$</p> <p>$a^3 x$</p>	<p>9-12. Factor: $3x^3 - 12x$</p> <p>$3x(x^2 - 4)$ or $3x(x+2)(x-2)$</p>
<p>9-4. Find the surface area of this cube:</p>  <p>54 cm^2</p>	<p>9-5. $\frac{3}{5} = \frac{9}{x}$</p> <p>$x = 15$</p>	<p>9-6. Simplify: $\sqrt{\frac{25}{16}}$</p> <p>$\frac{5}{4}$</p>	<p>9-13. Multiply: $(7b^2)(b-2)$</p> <p>$7b^3 - 14b^2$</p>	<p>9-15. Simplify: $(3x^2 + 5x) + (2x^2 - x)$</p> <p>$5x^2 + 4x$</p>
<p>9-7. If $b = 4$, then determine: $7b - 38$</p> <p>-10</p>	<p>9-8. What is the distance when time = 2 hours?</p> <p>Distance an Airplane Travels over Time</p>  <p>2000 km</p>	<p>9-9. Calculate: $6^2 + 2^3$</p> <p>44</p>	<p>9-16. Which angle is closest to 90°?</p>  <p>$\sphericalangle B$</p>	<p>9-18. Find the value of x:</p>  <p>$x = 6$</p>
<p>9-11. Divide: $\frac{5x^3 + 10x^2}{5x}$</p> <p>$x^2 + 2x$</p>	<p>9-14. Solve for p: $-5(p+3) = -5(2p+5)$</p> <p>$p = -2$</p>	<p>9-17. Which angle is the smallest angle?</p>  <p>$\sphericalangle A$</p>		

Mathematics Inventory

Use the following charts to record whether the student answered each numeracy question from the Mathematics Inventory correctly. The numbers in the first column indicate the grade and question number on the inventory (e.g., 7-1 indicates an equivalent of Grade 7, question 1), and the fourth column indicates the mathematics learning outcomes that correlate with the respective questions.

Grade 1	Correct (✓)	Incorrect (X)	Not Answered (—)	
1-1				Solves addition facts to 10
1-2				Solves addition facts to 18
1-3				Solves subtraction facts to 10
1-4				Solves subtraction facts to 18
1-5				Counts or subitizes to 10
1-6				Sequences numbers to 20
1-7				Continues a repeating pattern
1-8				Recognizes basic 2-D shapes
1-9				Sequences numbers by 10s
1-10				Counts backward by 1s from 100
1-11				Compares the length of two lines
1-12				Recognizes basic 3-D shapes

Grade 2	Correct (✓)	Incorrect (X)	Not Answered (—)	
2-1				Recalls doubles to 18
2-2				Knows the number of days in a week
2-3				Can count forward by 10s at various starting points
2-4				Adds 2-digit numbers to 100 without regrouping
2-5				Adds 2-digit numbers to 100 with regrouping
2-6				Subtracts two 2-digit numbers without regrouping
2-7				Subtracts two 2-digit numbers with regrouping
2-8				Demonstrates whether a number to 100 is odd or even
2-9				Understands place value to 100
2-10				Demonstrates understanding of number pattern to 100
2-11				Compares measurement attributes
2-12				Interprets concrete graphs

Grade 3	Correct (✓)	Incorrect (X)	Not Answered (—)	
3-1				Adds 3-digit numbers with regrouping
3-2				Subtracts 3-digit numbers with regrouping
3-3				Identifies a fraction
3-4				Completes a backward number sequence by 25 from 1000
3-5				Completes a forward number sequence by 3 to 100
3-6				Understands place value to 100
3-7				Multiplies single-digit numbers
3-8				Divides single-digit numbers
3-9				Identifies missing addend
3-10				Solves problem using time
3-11				Identifies vertices on 3-D solids
3-12				Identifies perimeter of 2-D shapes

Grade 4	Correct (✓)	Incorrect (X)	Not Answered (—)	
4-1				Compares basic fractions
4-2				Identifies fractions
4-3				Determines area of rectangles
4-4				Solves subtraction equations
4-5				Changes basic fraction to a decimal
4-6				Multiplies single-digit numbers
4-7				Divides 2-digit number by single-digit number
4-8				Adds decimals (tenth)
4-9				Adds decimals (hundredth)
4-10				Subtracts decimals (hundredth)
4-11				Determines line of symmetry
4-12				Identifies time (quarter hour)

Grade 5	Correct (✓)	Incorrect (X)	Not Answered (—)	
5-1				Creates equivalent fractions
5-2				Multiplies 2-digit numbers
5-3				Compares fractions with like denominators
5-4				Divides 4-digit numbers by 1-digit number
5-5				Solves problems using 1-step variables
5-6				Identifies and draws parallel lines
5-7				Determines lengths of a rectangle given the perimeter

Grade 5	Correct (✓)	Incorrect (X)	Not Answered (—)	
5-8				Demonstrates understanding of length
5-9				Demonstrates understanding of volume
5-10				Converts metres to centimetres
5-11				Identifies place value to ten thousands
5-12				Identifies value of number words

Grade 6	Correct (✓)	Incorrect (X)	Not Answered (—)	
6-1				Identifies place value to the millions
6-2				Uses order of operations
6-3				Lists factors of a number
6-4				Changes an improper fraction to a mixed number
6-5				Writes a fraction as a percent
6-6				Multiplies decimals to the tenth
6-7				Divides decimals to the hundredths
6-8				Identifies negative integers on a number line
6-9				Evaluates variable expressions
6-10				Determines algebraic formulas
6-11				Finds the measure of a missing angle in a triangle
6-12				Finds the measure of a missing angle in a quadrilateral

Grade 7	Correct (✓)	Incorrect (X)	Not Answered (—)	
7-1				Orders fractions and decimals
7-2				Orders integers
7-3				Adds integers
7-4				Subtracts integers
7-5				Problem solves using a circle graph
7-6				Adds improper/mixed numbers with unlike denominators
7-7				Subtracts improper/mixed numbers with unlike denominators
7-8				Identifies diameter
7-9				Identifies radius
7-10				Determines area of a circle
7-11				Determines area of a rectangle
7-12				Determines area of a triangle

Grade 8	Correct (✓)	Incorrect (X)	Not Answered (—)	
8-1				Determines square root
8-2				Divides fractions
8-3				Multiplies integers
8-4				Solves exponents
8-5				Solves algebraic equations using integers
8-6				Uses the Pythagorean theorem
8-7				Determines surface area of a rectangular prism
8-8				Determines volume of a rectangular prism
8-9				Solves algebraic equations using fractions

Grade 9	Correct (✓)	Incorrect (X)	Not Answered (—)	
9-1				Combines using laws of powers
9-2				Compares and orders rational numbers
9-3				Combines integers
9-4				Determines the surface area of a cube
9-5				Solves an equation with ratios
9-6				Determines the square root of a rational number
9-7				Uses substitution with integers
9-8				Analyzes values in a linear graph
9-9				Calculates using order of operations with exponents
9-10				Simplifies rational expression with powers
9-11				Reduces a polynomial expression
9-12				Finds the common factor of a polynomial
9-13				Multiplies a monomial with a binomial expression
9-14				Solves an equation with a variable
9-15				Simplifies a polynomial
9-16				Identifies the inscribed angle in a circle
9-17				Identifies the inscribed angle in a circle
9-18				Finds the hypotenuse of a right triangle