Count each individual answer as a separate point except in Student Activity Twelve where only the numbers in the boxes, not the circled numbers, are counted. The total for the test is 100 points. The student should achieve a score of 70 or more points to be ready to begin second grade. Be sure to note the areas of weakness even for those who score over 70 points.

1. Write the numbers.

452 has a **2** in the ones' place.

918 has a **9** in the hundreds' place.

763 has a **6** in the tens' place.

2. Write the numbers.

495 = **400** + **90** + **5**   500 + 30 + 8 **538**

817 = **800** + **10** + **7**   900 + 10 + 6 **916**

3. Write the correct time.

5 : 00   6 : 45   3 : 30   10 : 15

4. Write the value of each coin.

10 ¢   **25** ¢   **25** ¢

5 ¢   **1** ¢   **10** ¢

1 ¢   **5** ¢

5. Add.

29	35	44	13	18	59	37	53
+33	+55	+29	+67	+33	+29	+87	+49
62	90	73	80	51	88	124	102
38	63	58	47	92	97	43	42
+88	+99	+42	+77	+19	+88	+27	+77
126	162	100	124	111	185	70	119

6. Write = or ≠ between each set.

3 + 7 **=** 10   7 + 9 **=** 16   5 + 9 **≠** 13

4 + 9 **≠** 12   5 + 3 **≠** 9   6 + 8 **=** 14

7. Draw a line to match the shape to its name.

triangle
square
octagon
diamond
circle
oval
rectangle

8. Subtract.

11	16	17	12	15	13	11	13
- 9	- 8	- 7	- 6	- 8	- 7	- 3	- 6
2	8	10	6	7	6	8	7
12	14	17	11	15	13	18	16
- 5	- 8	- 8	- 4	- 7	- 4	- 9	- 8
7	6	9	7	8	9	9	8
68	99	72	33	78	55	57	78
-46	-35	-52	-20	-24	-43	-24	-27
22	64	20	13	54	12	33	51

9. Write the fractional part that is shaded.

$\frac{1}{3}$ $\frac{1}{6}$ $\frac{1}{5}$

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

10. How many eggs are in a dozen? __12__

11. Write < or > between each set.

135 **<** 144   116 **<** 173

173 **>** 167   183 **<** 200

12. Circle every third number after 7.

⑦ 8 9 ⑩ 11 12 ⑬ 14 15

⑯ 17 18 ⑲ 20 21 ㉒ 23 24

㉕ 26 27 ㉘ 29 30 ㉛ 32 33

Write the circled numbers on the blanks.

7   10   13   16   19   22   25   28   31

13. Write the value of each set of coins.

48 ¢

56 ¢

42 ¢

87 ¢

AK2

Count each individual answer as a separate point. The total for the test is 70 points. The student should achieve a score of 50 or more points to be ready to begin third grade. Be sure to note the areas of weakness even for those who score over 50 points.

1.   Write the temperature.

__36__ °   __24__ °   __46__ °   __78__ °

2.   Write the ratio.

birds to fish   __2 : 3__   butterflies to lambs   __4 : 1__

butterflies and birds to fish and lambs   __6 : 4__

3.   Write the correct time.

__4 : 40__   __11 : 15__   __7 : 25__   __2 : 50__

4.   Write ones', tens', hundreds', or thousands'.

2,483 has a 8 in the   __tens'__   place.
2,483 has a 2 in the   __thousands'__   place.
9,048 has a 8 in the   __ones'__   place.
9,048 has a 0 in the   __hundreds'__   place.

5.   Name the shape. Draw a line of symmetry for each shape.

square   hexagon   triangle   oval

rectangle   circle   octagon   diamond

6.   Write < or >.

__<__

__>__

7.   Circle the next picture in sequence.

8.   Find the area.

__6__   square units   __18__   square units

__18__   square units

9.   Find the volume.

__10__   cubic units   __16__   cubic units   __20__   cubic units

10.   Write what the shaded fractional part of the whole equals.

$\frac{1}{4}$ of __12__ = __3__ $\frac{2}{3}$ of __12__ = __8__

11.   Find the sum and difference.

5,145	3,664	4,573	8,902	9,731	6,924
+ 3,369	+ 3,188	+ 5,157	- 7,837	- 4,652	- 1,539
8,514	6,852	9,730	1,065	5,079	5,385

12.   Find the product.

3	7	5	6	8	3	2	4	3
x 3	x 0	x 9	x 6	x 4	x 4	x 9	x 4	x 7
9	0	45	36	32	12	18	16	21

13.   Write the name of the solid.

sphere   cone   cube   pyramid   cylinder

14.   Write the answers.

Is 23 closer to 20 or 30? __20__ .   Is 62 closer to 60 or 70? __60__ .
Is 51 closer to 50 or 60? __50__ .   Is 38 closer to 30 or 40 __40__ .
Is 87 closer to 80 or 90 __90__ .   Is 46 closer to 40 or 50? __50__ .

15.   Write the Arabic numbers.

CCCXCV   __395__   XXXVI   __36__
LXXIV   __74__   CXXVII   __127__
DCCCLXIX   __869__   DCXLII   __642__

16.   In the rose garden, there were seven hundred forty-seven red rose buds. There were five hundred eighty-three yellow rose buds. How many more red rose buds were there than yellow? **164**

Mr. Nelson asked mother to buy 15 bunches of carrots for $ 4.83. Mother bought 12 heads of lettuce for $ 8.36. Junior asked his mother to buy tomatoes for $ 2.62. How much would mother's bill be for the three items?   **$15.81**

GRADE 4   Horizons Math Readiness Evaluation   Student Score_____

Count each individual answer as a separate point. The total for the test is 102 points. The student should achieve a score of 72 or more points to be ready to begin fourth grade. Be sure to note the areas of weakness even for those who score over 72 points.

1.   32   4,267   736
      7,861   86   2,815
    + 504   + 351   + 49
      8,397   4,704   3,600

2. $\frac{3}{3}$ $\frac{4}{5}$ $\frac{6}{6}$ $\frac{3}{4}$ $\frac{5}{5}$ $\frac{5}{8}$

    (answers can vary)

3. 3,814 3,734 3,559 3,086 4,503 3,119 1,553

4. <   >   >
   <   <   >

5.   4,310   0
    71,000   5,400
   258,000   12,780
    36,900   0

6. 2 r 3   7 r 3   8 r 1   3 r 2   5 r 6   3 r 6

7. 4:58   1:13   7:32   11:27   9:46

8. =   =   ≠   ≠

9. 190   4,240   80   23,500

10. 2,400   500   71,300   484,000

11. 8 : 3
     6 : 5
     22
     5 : 22

12. tens   hundred millions
    hundred thousands   hundreds
    thousands   ones
    millions   ten millions

13. $2\frac{1}{4}$ $3\frac{3}{4}$ $4\frac{3}{5}$

14. n = 6;   n = 14;   n = 24;   n = 16

15. $\frac{7}{8}$ $\frac{6}{7}$ $\frac{7}{9}$ $\frac{8}{10}$

16. $\frac{4}{8}$ $\frac{2}{5}$ $\frac{5}{9}$ $\frac{1}{7}$

    $\frac{3}{10}$ $\frac{1}{6}$ $\frac{3}{12}$ $\frac{5}{11}$

17.   2,286   89   57,363   986,654

18.   2,960   3,367   2,944
       1,968   411   1,092

19. $234.00 $13.88

Count each individual answer as a separate point. The total for the test is 81 points. The student should achieve a score of 57 or more points to be ready to begin fifth grade. Be sure to note the areas of weakness even for those who score over 57 points.
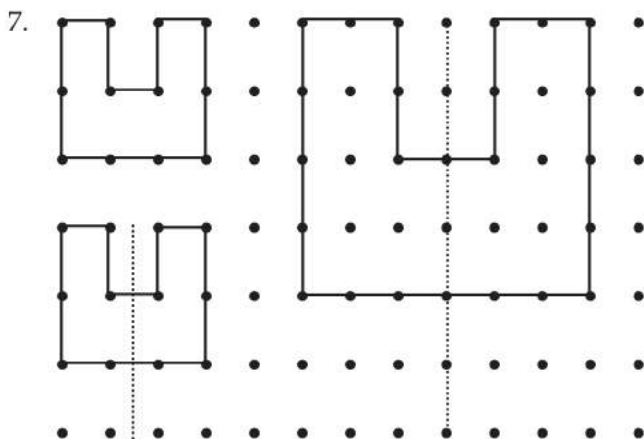
1. $6.02; $1.19; $7.89; $2.37; $5.18

2. 70;   90;   10;   20;   40

3. Tami

4. 1. j
    2. i
    3. b
    4. h
    5. m
    6. g
    7. c
    8. l
    9. d
    10. a
    11. k
    12. o
    13. e
    14. f
    15. n

5. 1. ∠RXS, ∠ SXQ
    2. ∠ RXQ, ∠ RXP
    3. PQ and AB
    4. AB and CD or PQ and RX

6. 1. Circle X
    2. 2 cm
    3. 2 cm
    4. CD
    5. 8 cm

7.

8. Figure A – perimeter 60 in; area 200 in^2
    Figure B – 24 cm^3

9. 27;   42;   48;   81

10. $\frac{3}{3} = 1$; $\frac{4}{10} = \frac{2}{5}$; $\frac{6}{12} = \frac{1}{2}$

     $\frac{6}{7}$; $\frac{13}{14}$; $\frac{13}{9} = 1\frac{4}{9}$

11. $\frac{4}{8} = \frac{1}{2}$; $\frac{10}{15} = \frac{2}{3}$; $\frac{8}{10} = \frac{4}{5}$

     $\frac{8}{12} = \frac{2}{3}$; $\frac{9}{12} = \frac{3}{4}$; $\frac{11}{15}$

12. $8\,3/6 = 8\,1/2$; $28\,5/7$; $3/6 = 1/2$;

     $10\,4/12 = 10\,1/3$;   16
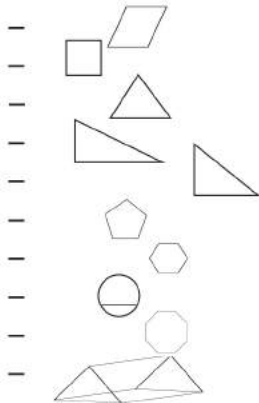
13. >   =   <   =

14. 53.244;   698.022;   1.132;   6.82

15   89.0;   7,889

     0.587;   85,400

     656,000;   700.1

AK5

GRADE 6   Horizons Math Readiness Evaluation   Student Score_____

Count each individual answer as a separate point. The total for the test is 83 points. The student should achieve a score of 59 or more points to be ready to begin sixth grade. Be sure to note the areas of weakness even for those who score over 59 points.
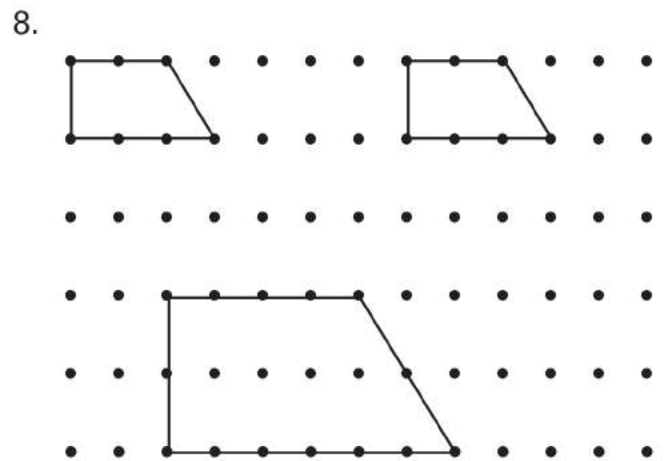
1.
 1. Rhombus —
 2. Square —
 3. Equilateral Triangle —
 4. Scalene —
 5. Isosceles —
 6. Pentagon —
 7. Hexagon —
 8. Chord —
 9. Octagon —
 10. Prism —

2.
 1. 18 cm²
 2. 12 cm²
 3. Front   18 cm² x 2   36 cm²
     Top   24 cm² x 2   48 cm²
     Side   12 cm² x 2   24 cm²
     Total   108 cm²

3. $\frac{15}{16}$ $2\frac{5}{8}$ $6\frac{8}{9}$ $14\frac{17}{24}$

   $20\frac{26}{21} = 21\frac{5}{21}$ $17\frac{10}{8} = 18\frac{2}{8} = 18\frac{1}{4}$

   $102\frac{67}{40} = 103\frac{27}{40}$

   $128\frac{12}{9} = 129\frac{3}{9} = 129\frac{1}{3}$

4.   21   9   20   36

5. $\frac{12}{35}$ $\frac{25}{96}$ $\frac{28}{27} = 1\frac{1}{27}$ $\frac{55}{8} = 6\frac{7}{8}$

   $\frac{7}{12}$ $\frac{6}{5} = 1\frac{1}{5}$ $\frac{18}{2} = 9$ $\frac{4}{45}$

6.
 1. $\overline{XY}$
 2. $\overline{AB}$
 3. $\overline{TX}$ or $\overline{TY}$
 4. 3 cm

7.

Name of Figure	Triangular prism	Hexagonal pyramid	cube
Faces	5	7	6
Edges	9	12	12
Vertices	6	7	8

8.

9.   53.4   2.43   0.66   54.18   30.66

10.   29.13   116.11   31.56   24.475

11.

Fraction	Decimal	Percent
$\frac{14}{100}$	0.14	14%
$\frac{62}{100}$	0.62	62%
$\frac{8}{100}$	0.08	8%
$\frac{19}{100}$	0.19	19%
$\frac{80}{100}$	0.80	80%
$\frac{75}{100}$	0.75	75%

12.   20   9   7   15

13.
 range = 73
 mean = 35
 mode = 11