Apologia Math Placement Test

FIND THE RIGHT LEVEL FOR YOUR STUDENT

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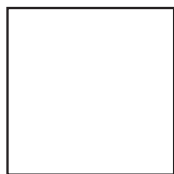# Is my child ready for Level 1?

If your child can correctly answer 80% or more of the questions on this test, then he or she is most likely ready for Level 1. If not, consider reviewing several of the missed concepts first.
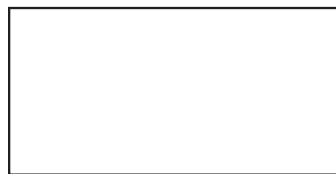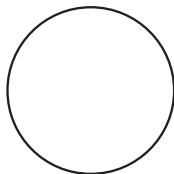
1. Count to 100.

2. Name each numeral.

0	3	19	2	4	7	9
15	18	11	1	5	10	6

3. Name each shape.

_____   _____

_____   _____

4. Match each numeral on the left to the same amount on the right.

3

5

7

1

0

10

4

2

Is my child ready for Level 2?

If your child can correctly answer 80% or more of the questions on this test, then he or she is most likely ready for Level 2. If not, consider reviewing several of the missed concepts first or starting with Level 1.

1. Count to 120.

2. Find each sum.

a. 3 + 3 = _____

b. 4 + 5 = _____

c. 7 + 3 = _____

d. 5 + 1 = _____

e. 0 + 9 = _____

f. 5 + 3 = _____

g. 7+ 8 = _____

h. 5 + 6 = _____

i.

Tens	Ones
3	3
+ 2	0

j.

Tens	Ones
4	1
+ 4	5

3. Find each difference.

a. 7 – 2 = _____

b. 11 – 0 = _____

c. 10 – 6 = _____

d. 5 – 1 = _____

e. 19 – 9 = _____

f. 13 – 5 = _____

4. There are 9 books on a shelf and then 3 are knocked off. How many books are left on the shelf?

5. At the park, 5 kids are playing. Then, 4 more join them. How many kids are playing at the park in total?
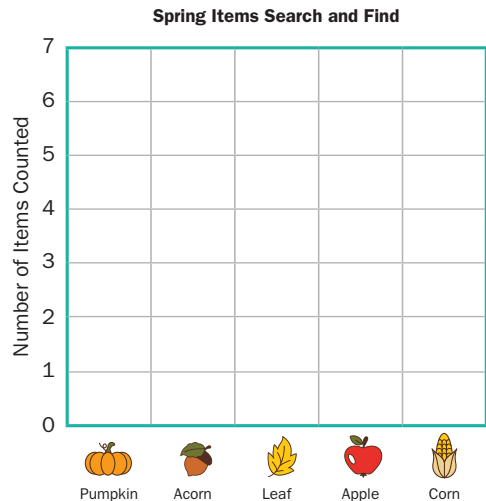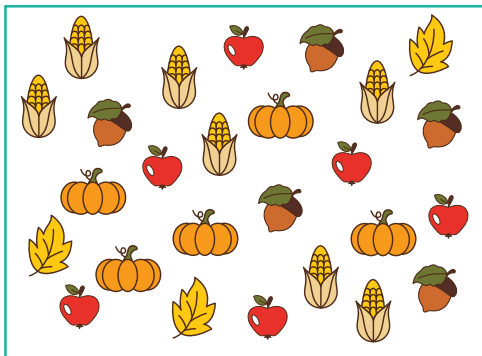
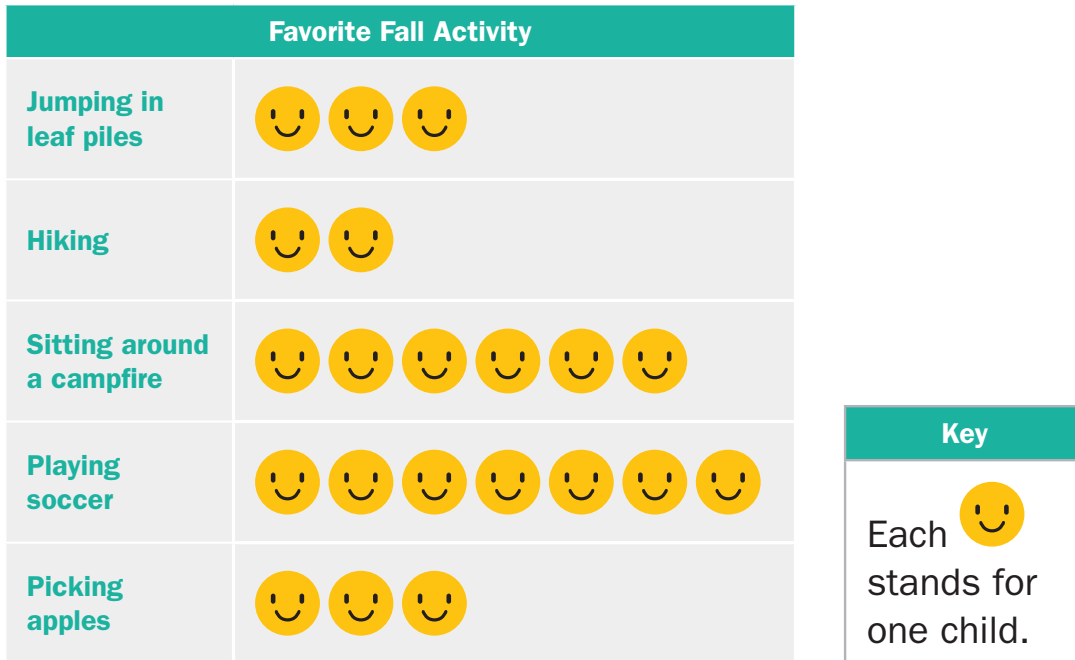**6.** Write the correct time below each clock.

7. Look at the picture on the right. Each time you see an image, make a tally mark on the chart on the left. Then, use the recorded data to create a bar graph.

Spring Items Search and Find

Number of Items Counted

Pumpkin   Acorn   Leaf   Apple   Corn

8. Use the picture graph to answer the questions.

Favorite Fall Activity	
Jumping in leaf piles	🙂 🙂 🙂
Hiking	🙂 🙂
Sitting around a campfire	🙂 🙂 🙂 🙂 🙂 🙂
Playing soccer	🙂 🙂 🙂 🙂 🙂 🙂 🙂
Picking apples	🙂 🙂 🙂

Key
Each 🙂 stands for one child.

The most popular fall activity was _____ .

How many kids said they liked picking apples? _____

9. Find an example of each of these shapes: sphere, cylinder, cone, cube, and rectangular prism.

Is my child ready for Level 3?

If your child can correctly answer 80% or more of the questions on this test, then he or she is most likely ready for Level 3. If not, consider reviewing several missed concepts first or starting with Level 2.

1. Skip count by 2's from 2 to 30. Skip count by 5's from 5 to 50. Skip count by 10's from 10 to 100.

2. Circle all the even numbers.

   5   12   13   15   2   10   20   1

3. Circle the value of the red digit.

352	670	915
500 50 5	600 60 6	100 10 1

4. Compare each set of numbers. Write >, <, or =.

   a. 58 ◯ 53   b. 651 ◯ 651

   c. 24 ◯ 42   d. 407 ◯ 412

5. Find each sum.

a.
$$26$$
$$+\ 42$$

b.
$$32$$
$$+\ 56$$

c.
$$69$$
$$+\ 23$$

d.
$$29$$
$$+\ 27$$

e.
$$704$$
$$+\ 233$$

f.
$$283$$
$$+\ 546$$

6. Find each difference.

a.
$$58$$
$$-\ 23$$

b.
$$95$$
$$-\ 24$$

c.
$$43$$
$$-\ 23$$

d.
$$92$$
$$-\ 34$$

e.
$$987$$
$$-\ 386$$

f.
$$605$$
$$-\ 177$$

7. On the first night of a camping trip, Sophia gathered 35 sticks for the campfire. On the second night it was harder to find sticks, and she only gathered 17. How many sticks did she gather altogether?

8. We checked out 36 books from the library. Ten of them are board books and the rest are picture books. How many are picture books?

9. Count up the coins and write the total.

The total is _____ ¢.

The total is _____ ¢.

10. Write the number of sides each shape has.

a. A triangle has _____ sides.

b. A pentagon has _____ sides.

c. A quadrilateral has _____ sides.

d. A hexagon has _____ sides.

Is my child ready for Level 4?

If your child can correctly answer 80% or more of the questions on this test, then he or she is most likely ready for Level 4. If not, consider reviewing several of the missed concepts first or starting with Level 3.

1. Round each number to the nearest ten.

   a. 56 _____

   b. 453 _____

2. Compare each set of numbers. Write >, <, or =.

   a. 143 ⬤ 134

   b. 509 ⬤ 478

3. Find each product.

   a. 0 x 5 = _____

   b. 2 x 6 = _____

   c. 7 x 1 = _____

   d. 3 x 4 = _____

   e. 10 x 2 = _____

   f. 2 x 3 = _____

4. Which fact has the same product as 5×6?

a. 7×4

c. 6×4

b. 6×5

d. 10×2

5. Find each quotient.

a. $14 \div 2 =$
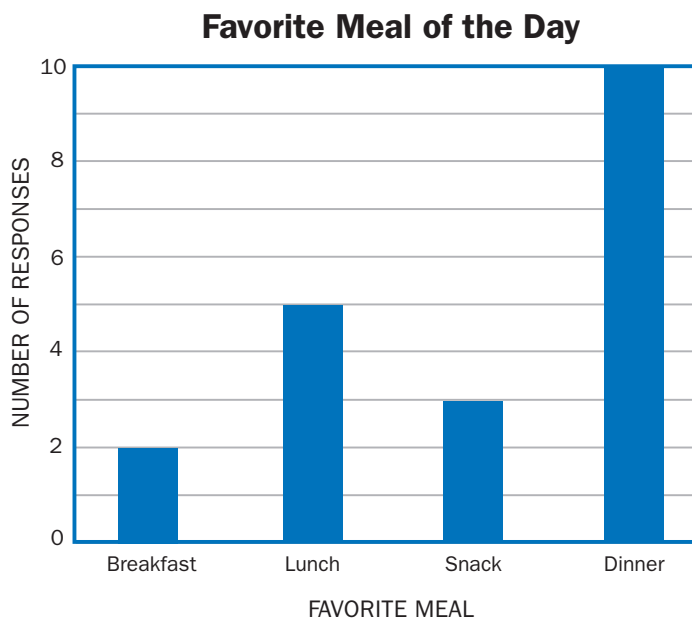
c. $20 \div 5 =$

b. $40 \div 10 =$

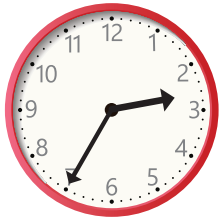d. $15 \div 3 =$

6. Use the bar graph to answer the questions.

a. How many people chose dinner as their favorite meal?

b. How many people chose snack?

c. How many more people chose lunch than breakfast?

Favorite Meal of the Day

NUMBER OF RESPONSES

FAVORITE MEAL

Breakfast   Lunch   Snack   Dinner

7. Write the correct time below each clock.

8. Compare each set of fractions. Write >, <, or =.

a. $\dfrac{1}{8}$ ◯ $\dfrac{1}{10}$

b. $\dfrac{1}{4}$ ◯ $\dfrac{1}{4}$

c. $\dfrac{3}{10}$ ◯ $\dfrac{3}{8}$

d. $\dfrac{1}{4}$ ◯ $\dfrac{2}{8}$

9. Find the perimeter and the area of the rectangle.

Perimeter: _____ meters

Area: _____ square meters

10m

3m   3m

10m
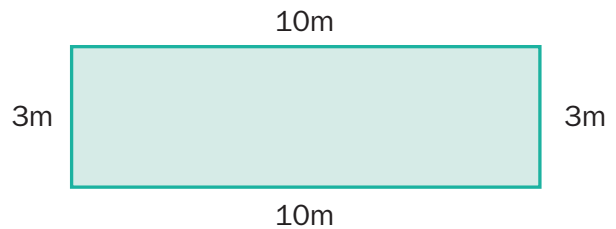
10. Classify each angle as acute, right, or obtuse.

_____   _____   _____

Is my child ready for Level 5?

If your child can correctly answer 80% or more of the questions on this test, then he or she is most likely ready for Level 5. If not, consider reviewing several of the missed concepts first or starting with Level 4.

1. Write the value of the underlined digit.

   a. 1<u>7</u>,856 _____

   b. <u>1</u>,800,003 _____

2. Write the number in expanded form and word form.

   a. 1,700 _____

   _____

   b. 453 _____

   _____

3. Find the sum or difference.

   a.
$$\begin{array}{r} 83{,}917 \\ +\ 15{,}569 \\ \hline \end{array}$$

   b.
$$\begin{array}{r} 711{,}505 \\ -\ 120{,}371 \\ \hline \end{array}$$

4. Find the product or quotient.

   a. $7 \times 8 =$ _____

   d. $8 \times 5 =$ _____

   b. $9 \times 4 =$ _____

   e. $45 \div 9 =$ _____

   c. $6 \times 7 =$ _____

   f. $42 \div 7 =$ _____

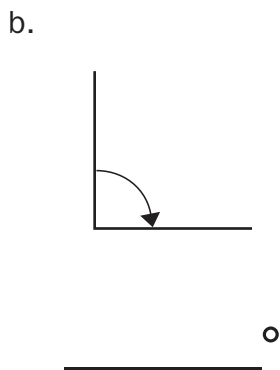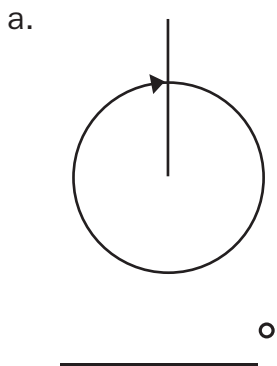**5.** Circle the number that is not a square number.

   4   10   16   49

6. Find each product.

a.   67
       × 4

b.   45
      × 23

7. What is the difference between a rectangle and a parallelogram?

8. Write the number of degrees under each turn.

a.

b.

c.

_____ °   _____ °   _____ °
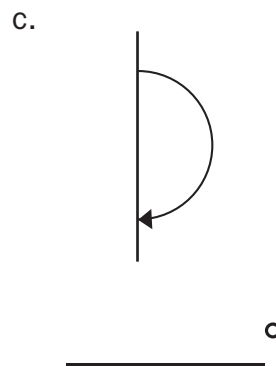
9. Find each quotient.

a. $6\overline{)21}$

b. $4\overline{)132}$

c. $7\overline{)225}$

10. List all the factors of 25. Is it prime or composite?

11. Find the sum or difference.

a. $\dfrac{1}{5} + \dfrac{3}{5} =$

b. $\dfrac{3}{4} - \dfrac{1}{8} =$

c. $1\dfrac{1}{8} + 2\dfrac{2}{8} =$

d. $3\dfrac{1}{4} - 1\dfrac{1}{2} =$

12. Write the decimal that is equal to 3 wholes, 9 tenths, and 1 hundredth.

Is my child ready for Level 6?

If your child can correctly answer 80% or more of the questions on this test, then he or she is most likely ready for Level 6. If not, consider reviewing several of the missed concepts first or starting with Level 5.

1. Evaluate each expression.

   a. $6 + 9 \times 5 - 3$

   b. $10 - 8 \div 2 + 4$

2. List all the factors of each number. Then, write whether it is prime or composite.

   a. 36

   b. 29

   c. 15

3. Find each quotient.

   a. $3\overline{)918}$

   b. $15\overline{)307}$

4. Find the sum or difference. Simplify your answer.

a. $\dfrac{1}{5} + \dfrac{2}{5} =$

b. $\dfrac{1}{8} + \dfrac{1}{2} =$

c. $\dfrac{9}{10} - \dfrac{3}{10} =$

d. $\dfrac{3}{4} - \dfrac{1}{3} =$

e. $1\dfrac{1}{5} + 3\dfrac{7}{10} =$

f. $5\dfrac{4}{5} - 1\dfrac{2}{5} =$

5. Find each product or quotient.

a. $\dfrac{3}{5} \times 15 =$

b. $\dfrac{2}{9} \times \dfrac{3}{4} =$

c. $\dfrac{3}{4} \div 2 =$

d. $6 \div \dfrac{1}{4} =$

e. $\dfrac{1}{5} \times \dfrac{5}{8} =$

f. $\dfrac{2}{3} \times \dfrac{1}{2} =$

6. Find each sum or difference.

   a.   1.58
          + 1.61

   b.   4.98
          − 1.72

7. Find each product or quotient.

   a.   4.1
          × 1.3

   b.   1.9
          × 2.3

   c. $4.55 \div 10 =$

   d. $68 \div 1{,}000 =$

8. Find the volume of the figure.

_____ inches cubed
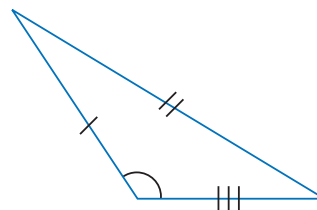
3 in

4 in   10 in

9. Classify the triangle according to its sides and angles.

_____

10. Write each percentage as a decimal and a simplified fraction.

   a.   41%

   b.   35%

LEVEL 1 & 2

Is my child ready for Level 1?

If your child can correctly answer 80% or more of the questions on this test, then he or she is most likely ready for Level 1. If not, consider reviewing several of the missed concepts first.

1. Count to 100.
   Answered verbally.

2. Name each numeral.

   0   3   19   2   4   7   9

   15   18   11   1   5   10   6

   Answered verbally.

3. Name each shape.

   square   rectangle

   circle   triangle

1

---

4. Match each numeral on the left to the same amount on the right.

   3

   5

   7

   1

   0

   10

   4

   2

2

Is my child ready for Level 2?

If your child can correctly answer 80% or more of the questions on this test, then he or she is most likely ready for Level 2. If not, consider reviewing several of the missed concepts first or starting with Level 1.

1. Count to 120.
   Answered verbally.

2. Find each sum.

   a. $3 + 3 = $ __6__
   b. $4 + 5 = $ __9__
   c. $7 + 3 = $ __10__
   d. $5 + 1 = $ __6__
   e. $0 + 9 = $ __9__
   f. $5 + 3 = $ __8__
   g. $7 + 8 = $ __15__
   h. $5 + 6 = $ __11__

   i.

Tens	Ones
3	3
+ 2	0
5	**3**

   j.

Tens	Ones
4	1
+ 4	5
8	**6**

3. Find each difference.

   a. $7 - 2 = $ __5__
   b. $11 - 0 = $ __11__
   c. $10 - 6 = $ __4__
   d. $5 - 1 = $ __4__
   e. $19 - 9 = $ __10__
   f. $13 - 5 = $ __8__

3

---

4. There are 9 books on a shelf and then 3 are knocked off. How many books are left on the shelf?

   $9 - 3 = 6$ 6 are left

5. At the park, 5 kids are playing. Then, 4 more join them. How many kids are playing at the park in total?

   $5 + 4 = 9$ 9 kids total

6. Write the correct time below each clock.

   7 : 00   3 : 30

7. Look at the picture on the right. Each time you see an image, make a tally mark on the chart on the left. Then, use the recorded data to create a bar graph.

4

18

LEVEL 2 & 3

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8. Use the picture graph to answer the questions.

Favorite Fall Activity

Jumping in leaf piles	☺ ☺ ☺
Hiking	☺ ☺
Sitting around a campfire	☺ ☺ ☺ ☺ ☺ ☺
Playing soccer	☺ ☺ ☺ ☺ ☺ ☺ ☺
Picking apples	☺ ☺ ☺

Key
Each ☺ stands for one child.

The most popular fall activity was ___Playing soccer___.

How many kids said they liked picking apples? ___3___

9. Find an example of each of these shapes: sphere, cylinder, cone, cube, and rectangular prism.

Answers will vary.

5

Is my child ready for Level 3?

If your child can correctly answer 80% or more of the questions on this test, then he or she is most likely ready for Level 3. If not, consider reviewing several missed concepts first or starting with Level 2.

1. Skip count by 2's from 2 to 30. Skip count by 5's from 5 to 50. Skip count by 10's from 10 to 100.

Answered verbally.

2. Circle all the even numbers.

5   (12)   13   15   (2)   (10)   (20)   1

3. Circle the value of the red digit.

352   —   500   (50)   5

670   —   (600)   60   6

915   —   100   (10)   1

4. Compare each set of numbers. Write >, <, or =.

a. 58 (>) 53   b. 651 (=) 651

c. 24 (<) 42   d. 407 (<) 412

6

---

5. Find each sum.

a.
26
+ 42
68

b.
32
+ 56
88

c.
69
+ 23
92

d.
29
+ 27
56

e.
704
+ 233
937

f.
283
+ 546
829

6. Find each difference.

a.
58
− 23
35

b.
95
− 24
71

c.
43
− 23
20

d.
92
− 34
58

e.
987
− 386
601

f.
605
− 177
428

7. On the first night of a camping trip, Sophia gathered 35 sticks for the campfire. On the second night it was harder to find sticks, and she only gathered 17. How many sticks did she gather altogether?

35
+ 17
52

52 sticks altogether

7

---

8. We checked out 36 books from the library. Ten of them are board books and the rest are picture books. How many are picture books?

36
− 10
26

26 are picture books

9. Count up the coins and write the total.

The total is _66_ ¢.

The total is _59_ ¢.

10. Write the number of sides each shape has.

a. A triangle has ___3___ sides.

b. A pentagon has ___5___ sides.

c. A quadrilateral has ___4___ sides.

d. A hexagon has ___6___ sides.

8

LEVEL 4 & 5

Is my child ready for Level 4?

If your child can correctly answer 80% or more of the questions on this test, then he or she is most likely ready for Level 4. If not, consider reviewing several of the missed concepts first or starting with Level 3.

1. Round each number to the nearest ten.

  a. 56 __60__   b. 453 __450__

2. Compare each set of numbers. Write >, <, or =.

  a. 143 (>) 134   b. 509 (>) 478

3. Find each product.

  a. 0 x 5 = __0__   d. 3 x 4 = __12__

  b. 2 x 6 = __12__   e. 10 x 2 = __20__

  c. 7 x 1 = __7__   f. 2 x 3 = __6__

---

4. Which fact has the same product as 5 × 6?

  a. 7 × 4   c. 6 × 4

  (b. 6 × 5)   d. 10 × 2

5. Find each quotient.

  a. 14 ÷ 2 = __7__   c. 20 ÷ 5 = __4__

  b. 40 ÷ 10 = __4__   d. 15 ÷ 3 = __5__

6. Use the bar graph to answer the questions.

  a. How many people chose dinner as their favorite meal?
  __10__
  b. How many people chose snack?
  __3__
  c. How many more people chose lunch than breakfast?
  __5 − 2 = 3__

Favorite Meal of the Day

---

7. Write the correct time below each clock.

  2 : 35   1 : 19   8 : 41

8. Compare each set of fractions. Write >, <, or =.

  a. $\frac{1}{8}$ (>) $\frac{1}{10}$ c. $\frac{3}{10}$ (<) $\frac{3}{8}$

  b. $\frac{1}{4}$ (=) $\frac{1}{4}$ d. $\frac{1}{4}$ (=) $\frac{2}{8}$

9. Find the perimeter and the area of the rectangle.

  Perimeter: __26__ meters

  Area: __30__ square meters

  10m   3m   3m   10m

10. Classify each angle as acute, right, or obtuse.

  __Right__   __Obtuse__   __Acute__

Is my child ready for Level 5?

If your child can correctly answer 80% or more of the questions on this test, then he or she is most likely ready for Level 5. If not, consider reviewing several of the missed concepts first or starting with Level 4.

1. Write the value of the underlined digit.

  a. 17,856 __7,000__   b. 1,800,003 __1,000,000__

2. Write the number in expanded form and word form.

  a. 1,700 __1,000 + 700__
  __one thousand, seven hundred__

  b. 453 __400 + 50 + 3__
  __four hundred fifty-three__

3. Find the sum or difference.

  a. 83,917   b. 711,505
    + 15,569   − 120,371
    99,486   591,134

4. Find the product or quotient.

  a. 7 × 8 = __56__   d. 8 × 5 = __40__

  b. 9 × 4 = __36__   e. 45 ÷ 9 = __5__

  c. 6 × 7 = __42__   f. 42 ÷ 7 = __6__

LEVEL 5 & 6

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5. Circle the number that is not a square number.

4 (10) 16 49

6. Find each product.

a.
$$
\begin{array}{r}
67 \\
\times\ 4 \\
\hline
268
\end{array}
$$

b.
$$
\begin{array}{r}
45 \\
\times\ 23 \\
\hline
135 \\
+\ 900 \\
\hline
1{,}035
\end{array}
$$

7. What is the difference between a rectangle and a parallelogram?

A rectangle has 4 right angles.

8. Write the number of degrees under each turn.

a.   b.   c.

360 °   90 °   180 °

---

9. Find each quotient.

a.
$$
\begin{array}{r}
3\ \text{r3} \\
6\overline{)21} \\
-18 \\
\hline
3
\end{array}
$$

b.
$$
\begin{array}{r}
33 \\
4\overline{)132} \\
-12 \\
\hline
12 \\
-12 \\
\hline
0
\end{array}
$$

c.
$$
\begin{array}{r}
32\ \text{r.1} \\
7\overline{)225} \\
-21 \\
\hline
15 \\
-14 \\
\hline
1
\end{array}
$$

10. List all the factors of 25. Is it prime or composite?

1×25 Composite
5×5

11. Find the sum or difference.

a. $\dfrac{1}{5} + \dfrac{3}{5} = \dfrac{4}{5}$ b. $\dfrac{3}{4} - \dfrac{1}{8} = \dfrac{5}{8}$

c. $1\dfrac{1}{8} + 2\dfrac{2}{8} = 3\dfrac{3}{8}$ d. $3\dfrac{1}{4} - 1\dfrac{1}{2} = 1\dfrac{3}{4}$
    $1 + 2 = 3$ $2\dfrac{5}{4} - 1\dfrac{2}{4} = 1\dfrac{3}{4}$
    $\dfrac{1}{8} + \dfrac{2}{8} = \dfrac{3}{8}$

12. Write the decimal that is equal to 3 wholes, 9 tenths, and 1 hundredth.

3.91

Is my child ready for Level 6?

If your child can correctly answer 80% or more of the questions on this test, then he or she is most likely ready for Level 6. If not, consider reviewing several of the missed concepts first or starting with Level 5.

1. Evaluate each expression.

a. $6 + 9 \times 5 - 3$
    $6 + 45 - 3$
    $51 - 3$
    48

b. $10 - 8 \div 2 + 4$
    $10 - 4 + 3$
    $6 + 4$
    10

2. List all the factors of each number. Then, write whether it is prime or composite.

a. 36
1×36
2×18
3×12
4×9
6×6
composite

b. 29
1×29
prime

c. 15
1×15
3×5

composite

3. Find each quotient.

a.
$$
\begin{array}{r}
306 \\
3\overline{)918} \\
-9 \\
\hline
01 \\
-0 \\
\hline
18 \\
-18 \\
\hline
0
\end{array}
$$

b.
$$
\begin{array}{r}
20\ \text{r.7} \\
15\overline{)307} \\
-30 \\
\hline
07 \\
-0 \\
\hline
7
\end{array}
$$

---

4. Find the sum or difference. Simplify your answer.

a. $\dfrac{1}{5} + \dfrac{2}{5} = \dfrac{3}{5}$ b. $\dfrac{1}{8} + \dfrac{1}{2} = \dfrac{5}{8}$

c. $\dfrac{9}{10} - \dfrac{3}{10} = \dfrac{6}{10} = \dfrac{4}{5}$ d. $\dfrac{3}{4} - \dfrac{1}{3} = \dfrac{5}{12}$
                               $\dfrac{9}{12} - \dfrac{4}{12} = \dfrac{5}{12}$

e. $1\dfrac{1}{5} + 3\dfrac{7}{10} = 4\dfrac{9}{10}$ f. $5\dfrac{4}{5} - 1\dfrac{2}{5} = 4\dfrac{2}{5}$

5. Find each product or quotient.

a. $\dfrac{3}{5} \times 15 = 9$
    $\dfrac{45}{5} = 9$

b. $\dfrac{2}{3} \times \dfrac{3}{4} = \dfrac{1}{6}$

c. $\dfrac{3}{4} \div 2 = \dfrac{3}{8}$
    $\dfrac{3}{4} \times \dfrac{1}{2} = \dfrac{3}{8}$

d. $6 \div \dfrac{1}{4} = 24$
    $6 \times 4 = 24$

e. $\dfrac{1}{8} \times \dfrac{1}{8} = \dfrac{1}{8}$

f. $\dfrac{2}{3} \times \dfrac{1}{2} = \dfrac{1}{3}$

LEVEL 6

6. Find each sum or difference.

a.
```
  1.58
+ 1.61
  3.19
```

b.
```
  4.98
− 1.72
  3.26
```

7. Find each product or quotient.

a.
```
    4.1
  × 1.3
    123      5.33
+ 410
  533
```
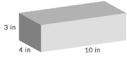
b.
```
    1.9
  × 2.3
     57      4.37
+ 380
  437
```

c. $4.55 \div 10 = 0.455$

d. $68 \div 1,000 = 0.068$

8. Find the volume of the figure.

_____120_____ inches cubed

3 in   4 in   10 in

9. Classify the triangle according to its sides and angles.

_____Scalene obtuse_____

10. Write each percentage as a decimal and a simplified fraction.

a. 41%

0.41 $\frac{41}{100}$

b. 35%

0.35 $\frac{35}{100} = \frac{7}{20}$ **17**