# Common Core
# MATHEMATICS

## Level 5



parent tested
parent approved

WINNER
www.ptpamedia.com
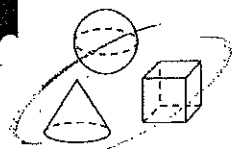
# Summer Solutions.

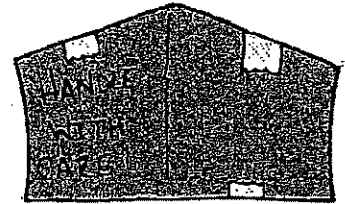Minutes a Day–Mastery for a Lifetime!

# Lesson #1 Example

1.  Sam got a box in the mail. It had a base of 4 units by 3 units, and its height was 6 units. What was the volume of the box in cubic units?

2.  Draw an equilateral triangle.

3.  $11 + \dfrac{3}{7} = ?$

4.  Solve $672 \div 4$.

5.  Plot and label the points L (5, 3) and J (4, 5) on the coordinate plane.

6.  Estimate first. Then give the exact sum.   $3.5 + 2.4 = ?$

7.  $22 \times 51 = ?$

8.  Convert 500 grams to milligrams.   $500 \text{ g} = ? \text{ mg}$

9.  Study the number pattern. What is the rule?  21, 42, 84, 168

    A) add 21 to each number              C) double each number

    B) subtract 84 from each number       D) divide each number by 2

10. $(74 - 52) \div 2 = ?$

11. Round 44.449 to the nearest hundredth.

12. Holt and Blake carried in grocery bags for their mom. Holt's bag weighed $4\frac{9}{10}$ pounds and Blake's bag weighed $2\frac{2}{5}$ pounds. How much more did Holt's bag weigh?

13. Order the numbers from least to greatest.   7.74    7.07    7.7

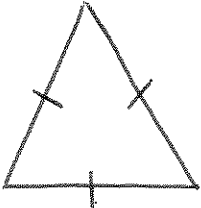14. Choose the expression that means the same as $\dfrac{3}{4} \times 2$
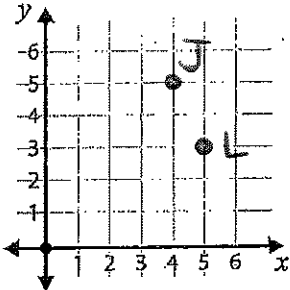
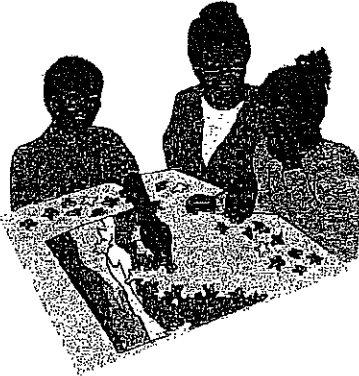    A) $(3 \times 2) \div 4 \times 1$       B) $(3 \times 4) \div 2 \times 1$       C) $(3 \times 2) \times 4 \times 1$
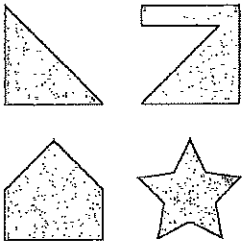
15. Theresa's Tutus received a shipment of 25 tutus. One-fifth of the tutus were blue. How many blue tutus were in the shipment? Solve the equation.

$$\frac{1}{5} \times 25 = t$$

**1.**
$V = \ell \times w \times h$
$= 4 \times 3 \times 6$
(72 units$^3$)

**2.**


**3.**
$11 + \frac{3}{7} =$
$\left(11\frac{3}{7}\right)$

**4.**
(168)
$4\overline{)672}$
$-4\downarrow$
$27$
$-24\downarrow$
$32$
$-32$
$0$

**5.**


**6.**
$3.5 + 2.4$
estimate:
$\approx 4 + 2 = 6$
exact: $3.5$
$+ 2.4$
(5.9)

**7.**
$22$
$\times 51$
$22$
$1100$
(1122)

**8.**
K H D |b| d c m
⤳ ×1000
500.000
$500g =$ (500,000 mg)

**9.**
21, 42, 84, 168
×2  ×2  ×2
(C. Double each number)

**10.**
$(74 - 52) \div 2$
$22 \div 2$
(11)

**11.**
44.449
(44.45)

**12.**
$4\frac{9}{10}^{\times 1} - 2\frac{2}{5}^{\times 2} =$
$4\frac{9}{10} - 2\frac{4}{10} =$
$2\frac{5}{10} =$ (2$\frac{1}{2}$ pounds)

**13.**
7.74 ✓✓✓
7.07 ✓
7.7 ✓✓
(7.07, 7.7, 7.74)

**14.**
$\frac{3}{4} \times 2 = \frac{3}{4} \times \frac{2}{1} =$
$\frac{3 \times 2}{4 \times 1}$
(A. $(3 \times 2) \div 4 \times 1$)

**15.**
$\frac{1}{5} \times 25 = t$
$\frac{1}{5} \times \frac{25}{1} = \frac{25}{5} =$
(5 blue tutus)

# Lesson #2

1. The book box in Mrs. Patrick's room has a base of 2 feet by 2 feet. The height of the box is 3 feet. What is the cubic volume of the book box?

2. $82 + (3 \times 12) = ?$

3. Draw the lines of symmetry for each irregular polygon. Some will have none.

4. Estimate first. Then give the exact sum. $4.25 + 3.49 = ?$

5. Write $(1 \times 100) + (3 \times 10) + (8 \times 1) + (5 \times \frac{1}{10}) + (1 \times \frac{1}{100})$ as a base-ten number.

6. $\frac{3}{4} + \frac{2}{3} = ?$

7. Round 7,868.230 to the nearest hundredth.

8. Gavin and Bailey were working on a puzzle. Gavin completed $\frac{2}{10}$ of the puzzle and Bailey completed $\frac{5}{10}$ of the puzzle. How much did they complete together?

9. Write the expression: multiply 6 and 8, and then divide by $\frac{5}{8}$.

10. Troy had $\frac{3}{4}$ container of clay. He used half of it for an art project. Which expression tells how much $\frac{1}{2}$ of $\frac{3}{4}$ is?

   A) $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$      B) $\frac{1}{2} \times \frac{4}{3} = \frac{4}{6}$ or $\frac{2}{3}$      C) $(2 \times 4) \div 3 = \frac{8}{3}$

11. The tire rolled 17 feet before it wobbled and fell over. How many inches did the tire roll?

12. The school secretary in the main office had 10 boxes of open house fliers to fold. If each student volunteer could fold $\frac{1}{5}$ of a box, how many volunteers would be needed to complete the task?

13. Identify the pattern by stating the rule.    200, 100, 50, 25

14. $2,305 \times 5 = ?$

15. Olivia read two-thirds of her book during the first week of break and finished it the next week. Her book was 15 pages long. Write an equation to show how many pages Olivia read during the first week.

| | | |
|---|---|---|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |
| 13. | 14. | 15. |

# Lesson #3

1. A block of cheese has a base that measures 8 inches by 4 inches and a height of 4 inches. What is the volume of the block of cheese?

2. $\frac{6}{7} + \frac{3}{9} = ?$

3. $(21 \div 7) \times (5 + 4) = ?$

4. $73 \times 15 = ?$

5. Convert 175 kilograms to grams.     175 kg = ? g
   Will the converted amount have
   more or fewer units than the original?

6. Write the expression: multiply 66 and 2, and then subtract 50.

7. Estimate first. Then give the exact sum. $12.41 + 17.17 = ?$

8. Another way to express $\frac{1}{4} \times \frac{3}{5}$ is _____.

   A) $(1 \times 3) \div (4 \times 5)$ or $\frac{3}{20}$

   B) $(1 \times 4) \div (3 \times 5)$ or $\frac{4}{15}$

   C) $(1 \times 5) \div (4 \times 3)$ or $\frac{5}{12}$

9. Christopher poured $\frac{2}{6}$ cup of cereal in his bowl this morning. Evan poured $\frac{3}{6}$ cup of cereal in his bowl. How many cups of cereal did the boys eat combined?
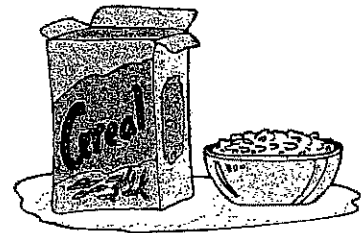
10. Solve $1,224 \div 3$

11. What ordered pair represents point D on the coordinate plane?

12. Order the numbers from greatest to least.     914.01     914.101     914.111

13. Identify the pattern by stating the rule.     163, 157, 151, 145, 139

14. Draw an isosceles triangle.
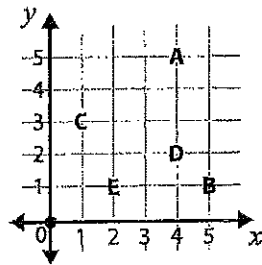
15. Round 97.645 to the nearest hundredth.

## LESSON #3

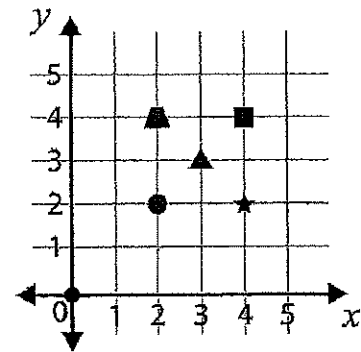| | | |
|---|---|---|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11.  | 12. |
| 13. | 14. | 15. |

# Lesson #4

1. $(36 \div 4) \times (3 \times 2) = ?$

2. Use the coordinate plane to complete the items.

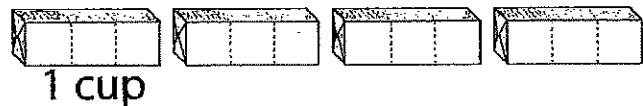   A) Name the shape located at (2, 2).

   B) Name the shape located at (4, 4).

3. $22 \times 14 = ?$

4. The pierogi recipe calls for $1\frac{2}{3}$ cups of butter. If Kelly wants to double the recipe, how much butter will she need? Use the model.
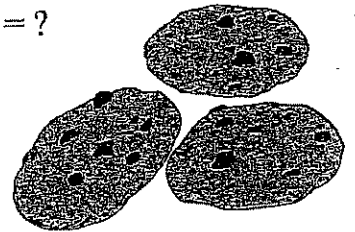
5. $71.81 \bigcirc 71.18$

   **1 cup**

6. $\frac{4}{5} - \frac{2}{3} = ?$

7. Round 56.275 to the nearest hundredth.

8. Estimate first. Then give the exact sum.   $32.59 + 12.68 = ?$

9. Convert 1,760 yards to feet.  1,760 yd = ? ft

10. Solve $2,478 \div 5$

11. Twins Melanie and Megan brought cookies to class for their birthday. Melanie passed out $\frac{6}{12}$ of the cookies, and Megan passed out $\frac{5}{12}$ of the cookies. How many of the cookies did the girls pass out?

12. A plastic food container has a base of 7 inches by 5 inches. The height of the container is 6 inches. What is the cubic volume of the plastic food container?

13. Choose the story that best fits the expression $\frac{2}{3} \times 15 = b$.

    A) $\frac{2}{3}$ of the candy is chocolate. How much chocolate is in 15 pieces of candy?

    B) 15 kids were going to the zoo and $\frac{2}{3}$ of the animals they saw were monkeys.

14. Draw a scalene triangle.

15. Identify the pattern by stating the rule.      11, 13, 15, 17, 19

# LESSON #4

| 1. | 2. | 3. |
|---|---|---|
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |
| 13. | 14. | 15. |

# Lesson #5

1.  Write the expression: multiply 86 by 20, and then subtract $\frac{7}{8}$.

2.  The high school basketball star was 2 meters tall. How many centimeters tall was the star?

3.  Round 23.2732 to nearest thousandth.

4.  $3{,}705 \times 5 = ?$

5.  What type of triangle is never symmetrical?

       A) equilateral       B) isosceles       C) scalene       D) right

6.  Estimate first. Then give the exact sum. $45.47 + 21.47 = ?$

7.  $(416 - 85) + (9 \times 6) = ?$

8.  $\frac{2}{3} - \frac{1}{4} = ?$

9.  Identify the pattern by stating the rule. 5, 15, 45, 135, 405

10. Mr. Spencer is painting his house orange and his trim black. For every gallon of black paint he uses, he uses 3 gallons of orange paint. If he used 4 gallons of black paint, how much orange paint did he use?

11. Solve $1{,}572 \div 6$

12. This year Joshua grew $\frac{6}{8}$ of an inch. Last year he only grew $\frac{4}{6}$ of an inch. How much more did Joshua grow this year compared to last year?

13. Daniel eats $2\frac{1}{2}$ granola bars a day. Write and solve an equation to show how many granola bars he eats in 30 days.

14. Write twenty-seven thousandths in decimal form.

15. The breakfast club purchased 4 boxes of donuts. Each person ate $\frac{1}{8}$ of a box. How many members are in the breakfast club?

# LESSON #5

| | | |
|---|---|---|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |
| 13. | 14. | 15. |

# Lesson #6

1. Convert 42 feet to inches.    $42 \text{ ft} = ?$ in.

2. Another way to express $\dfrac{2}{3} \times \dfrac{1}{3}$ is _____.

   A) $(2 \times 3) \div (2 \times 1)$      B) $2 \div 1$      C) $\dfrac{2}{3} \div 3$

3. Use the coordinate plane to complete the items.
   A) Which tree is located at (5, 2)?
   B) Which tree is located at (2, 4)?

4. $[300 - (9 \times 9)] + 143 = ?$

5. Solve $448 \div 14$

6. While on vacation, Mr. and Mrs. Smith split the driving distance equally. On day two, $\dfrac{1}{7}$ of the distance remained. How much of the total distance did Mr. and Mrs. Smith each drive on day two?

7. Order the numbers from least to greatest.      0.518     0.185     0.158

8. Round 86.16 to nearest tenth.

9. James made a rectangular prism out of building blocks that had a base of 5 inches by 3 inches and a height of 2 inches. His brother made an identical rectangular prism out of building blocks and placed it on top. What is their combined volume?

10. Estimate first. Then give the exact difference.      $67.18 - 13.15 = ?$

11. Write the expression: divide 381 by 4, and then multiply by 7.

12. Identify the pattern by stating the rule.      2, 12, 22, 32, 42

13. $93 \times 54 = ?$

14. Draw an acute angle.

15. Mary had $1\dfrac{1}{2}$ loaves of stale bread. She used $\dfrac{1}{3}$ of the bread to feed to the ducks at the park. How much did she use? Use the model.
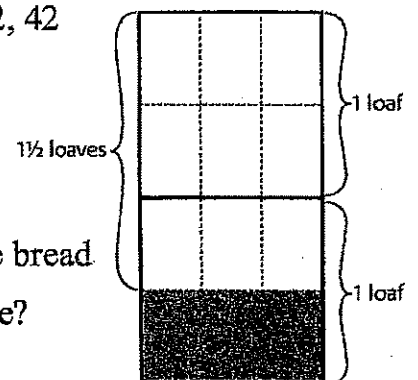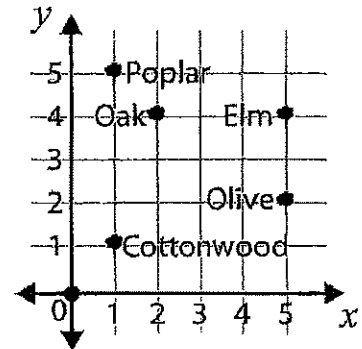
| | | |
|---|---|---|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
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| 10. | 11. | 12. |
| 13. | 14. | 15. |

loaf

loaf