

Mathematics

1.6

Addition

Number and Operations

DIRECTIONS: Solve each addition problem.

1. $7 + 11$

- (A) 19
- (B) 18
- (C) 16
- (D) 17

7. $9 + 1 + 4 =$

- (A) 13
- (B) 5
- (C) 14
- (D) 15

2. $6 + 2$

- (F) 5
- (G) 11
- (H) 8
- (J) 4

8. $6 + 3 + 2 =$

- (F) 65
- (G) 12
- (H) 5
- (J) 11

3. $2 + 8$

- (A) 10
- (B) 6
- (C) 28
- (D) 11

9. $10 + 5 + 2$

- (A) 107
- (B) 7
- (C) 17
- (D) 3

4. $12 + 3$

- (F) 16
- (G) 17
- (H) 18
- (J) 15

10. $5 + 11 =$

- (F) 16
- (G) 17
- (H) 6
- (J) 15

5. $5 + 5 =$

- (A) 5
- (B) 55
- (C) 10
- (D) 0

11. $3 + 8 + 5$

- (A) 16
- (B) 10
- (C) 2
- (D) 21

6. $12 + 4 =$

- (F) 16
- (G) 14
- (H) 22
- (J) 8

12. $4 + 7 + 1$

- (F) 10
- (G) 13
- (H) 2
- (J) 12



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1.C

Subtraction

Number and Operations

DIRECTIONS: Solve each subtraction problem.

1. $49 - 23$

- (A) 52
- (B) 26
- (C) 36
- (D) 62

2. $26 - 5 =$

- (F) 21
- (G) 11
- (H) 9
- (J) 22

3. $95 - 78 =$

- (A) 17
- (B) 27
- (C) 23
- (D) 13

4. $66 - 49 =$

- (F) 27
- (G) 17
- (H) 19
- (J) 18

5. $83 - 74$

- (A) 11
- (B) 14
- (C) 19
- (D) 9

6. $68 - 21$

- (F) 57
- (G) 47
- (H) 48
- (J) 49

7. $17 - 14 =$

- (A) 2
- (B) 3
- (C) 4
- (D) 5

8. $86 - 8$

- (F) 76
- (G) 89
- (H) 82
- (J) 78

9. $36 - 7 =$

- (A) 19
- (B) 31
- (C) 30
- (D) 29

10. $92 - 56$

- (F) 46
- (G) 45
- (H) 36
- (J) 34

11. $49 - 11 =$

- (A) 60
- (B) 38
- (C) 37
- (D) 29

12. $35 - 12$

- (F) 27
- (G) 33
- (H) 47
- (J) 23



Solving Addition and Subtraction Problems

Number and Operations

DIRECTIONS: Choose the best answer.

- Twenty students are in a lunch line. Emma is thirteenth in line. Which number sentence shows how many students are behind Emma?
 (A) $20 + 13 = 33$
 (B) $33 - 13 = 20$
 (C) $20 - 13 = 7$
 (D) $20 + 7 = 27$
- Thirty-nine ants live in the ant farm. Twenty-seven leave the farm. Which number sentence shows how many ants are left in the ant farm?
 (F) $39 - 27 = 12$
 (G) $39 + 27 = 66$
 (H) $66 - 27 = 39$
 (J) $12 + 39 = 51$
- A single-scoop ice-cream cone used to cost 79 cents. The price has gone up 19 cents. How much does it cost now?
 (A) 89¢
 (B) 78¢
 (C) 98¢
 (D) 99¢
- Notebooks at the school store cost 60 cents each, and pens cost 35 cents. If Hayden wants to buy one pen and one notebook, how much money will he need?
 (F) 90¢
 (G) 95¢
 (H) 85¢
 (J) 25¢
- Jenna's grandpa is 78 years old and her grandma is 73 years old. How many years are their ages together?
 (A) 150
 (B) 141
 (C) 148
 (D) 151
- Carter and Max were having a football-throwing contest. Carter threw it 62 feet and Max threw it 48 feet. How much farther did Carter throw the ball than Max?
 (F) 4 feet
 (G) 7 feet
 (H) 12 feet
 (J) 14 feet
- Latisha's mom baked 76 cookies yesterday. Latisha took 24 cookies to her class at school. Which number sentence shows how many cookies were left at home?
 (A) $76 + 24 = 100$
 (B) $100 - 76 = 24$
 (C) $76 - 24 = 52$
 (D) $52 + 24 = 76$
- Kara practiced the piano for 36 minutes on Monday, 24 minutes on Wednesday, and 31 minutes on Thursday. How many minutes did she practice in all?
 (F) 60 minutes
 (G) 81 minutes
 (H) 97 minutes
 (J) 91 minutes

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Mathematics

2.A

Identifying and Extending Number Patterns

Algebra

DIRECTIONS: Choose the best answer.

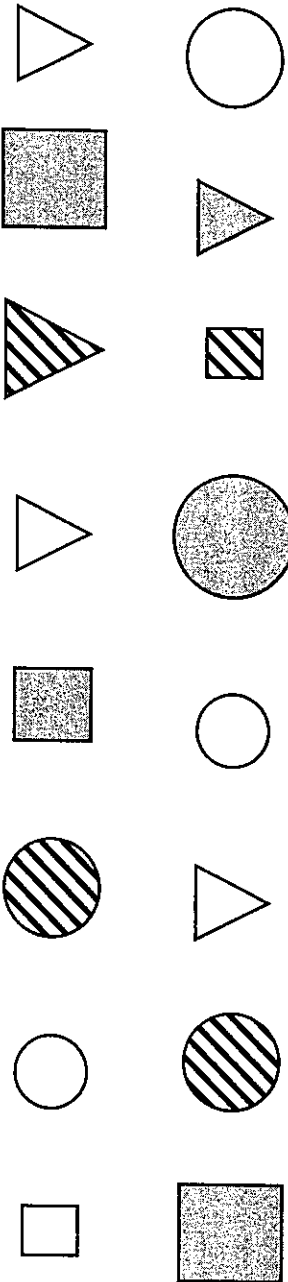
1. What is the next number after 3, 6, 9, 12?
 (A) 13
 (B) 11
 (C) 15
 (D) 14
2. What is the next number after 4, 8, 12, 16?
 (F) 14
 (G) 20
 (H) 15
 (J) 16
3. What is the next number after 10, 12, 14, 16?
 (A) 17
 (B) 18
 (C) 19
 (D) 20
4. What is the next number after 10, 15, 20, 25?
 (F) 35
 (G) 36
 (H) 40
 (J) 30
5. What are the next two numbers in this set?
20, 30, 40, 50, _____
 (A) 70, 80
 (B) 60, 80
 (C) 60, 70
 (D) 70, 60
6. How are these two sets of numbers similar?
6, 8, 10, 12
7, 9, 11, 13
 (F) both go up by 2
 (G) both go up by 3
 (H) both go up by 4
 (J) both go up by 5
7. How are these two sets of numbers similar?
11, 22, 33, 44
9, 20, 31, 42
 (A) both go up by 9
 (B) both go up by 10
 (C) both go up by 11
 (D) both go up by 12
8. How are these two sets of numbers similar?
5, 10, 15, 20
30, 35, 40, 45
 (F) both go up by 4
 (G) both go up by 5
 (H) both go up by 6
 (J) both go up by 7
9. How are these two sets of numbers similar?
1, 4, 7, 10
3, 6, 9, 12
 (A) both go up by 3
 (B) both go up by 4
 (C) both go up by 5
 (D) both go up by 6



Sorting Objects

Algebra

DIRECTIONS: Look at the shapes below. Then, answer the questions.



1. One way to sort the objects is by their shape. If you were to put all of the circles in a group, how many would you have?

- (A) 3
- (B) 4
- (C) 5
- (D) 6

2. If you were to put all of the squares in a group, how many would you have?

- (F) 3
- (G) 4
- (H) 5
- (J) 6

3. If you were to put all of the triangles in a group, how many would you have?

- (A) 4
- (B) 5
- (C) 6
- (D) 7

4. Another way to sort the objects is by their color or pattern. How many shapes are gray?

- (F) 2
- (G) 3
- (H) 4
- (J) 5

5. How many shapes are striped?

- (A) 3
- (B) 4
- (C) 5
- (D) 6

6. How many shapes are white?

- (F) 4
- (G) 5
- (H) 6
- (J) 7

7. How many shapes are striped circles?

- (A) 1
- (B) 2
- (C) 3
- (D) 4



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2.B

Using Related Operations

Algebra

DIRECTIONS: Choose the best answer.

Examples:

When you add numbers together, the order in which you add them does not change the answer. For example:

$$6 + 3 = 3 + 6$$

A **fact family** is a set of math facts that uses the same three numbers. For example, all four of the following math facts make up a fact family:

$$2 + 9 = 11$$

$$9 + 2 = 11$$

$$11 - 9 = 2$$

$$11 - 2 = 9$$

1. $14 + 5 =$

- (A) $5 + 14$
- (B) $5 - 14$
- (C) $14 + 14$
- (D) $5 + 5$

5. Which sentence fits with this fact family?

$$4 + 6 = 10$$

- (A) $10 - 6 = 4$
- (B) $6 + 6 = 12$
- (C) $7 - 2 = 5$
- (D) $10 - 5 = 5$

2. $8 + 3 =$

- (F) $3 + 3$
- (G) $8 - 3$
- (H) $3 + 8$
- (J) $8 + 8$

6. Which sentence fits with this fact family?

$$8 + 9 = 17$$

- (F) $9 + 3 = 12$
- (G) $9 + 8 = 17$
- (H) $8 - 4 = 4$
- (J) $7 + 9 = 16$

3. $9 + 2 =$

- (A) $2 - 9$
- (B) $2 + 9$
- (C) $9 + 9$
- (D) $2 - 3$

7. Which sentence does *not* fit with this fact family?

$$9 - 4 = 5$$

- (A) $5 + 4 = 9$
- (B) $4 + 5 = 9$
- (C) $9 - 7 = 1$
- (D) $9 - 5 = 4$

4. $5 + 4 =$

- (F) $5 - 4$
- (G) $5 + 5$
- (H) $4 + 5$
- (J) $4 + 4$



Using Symbolic Notations

Algebra

DIRECTIONS: Choose the answer that makes the number sentence true.

Examples:

$2 + \square = 7$

- (A) 4
- (B) 8
- (C) 5
- (D) 3

(C) : answer

If  + 7 = 14, what is  ?

- (F) 7
- (G) 5
- (H) 9
- (J) 2

(F) : answer

1. $24 - \square = 14$

- (A) 0
- (B) 4
- (C) 10
- (D) 20

2. $\bigcirc + 7 = 39$



- (F) 21
- (G) 32
- (H) 33
- (J) 42

3. $35 - \square = 5$



- (A) 30
- (B) 20
- (C) 10
- (D) 5

4. $\bigcirc - 12 = 12$

- (F) 10
- (G) 12
- (H) 22
- (J) 24

5. If  + 16 = 32, what is  ?

- (A) 8
- (B) 21
- (C) 16
- (D) 12

6. If $25 +$  = 50, what is  ?

- (F) 15
- (G) 25
- (H) 30
- (J) 40

7. If  + 15 = 25, what is  ?

- (A) 40
- (B) 30
- (C) 20
- (D) 10



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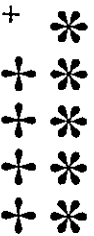
2.C

Using Mathematical Models

Algebra

DIRECTIONS: Choose the number sentence that matches the picture.

Examples:



- (A) $10 - 5 = 5$
- (B) $5 + 4 = 9$
- (C) $9 + 1 = 10$
- (D) $5 + 5 = 10$

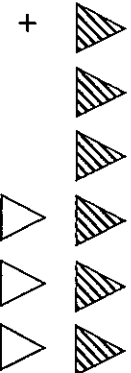
(B) Answer



- (F) $3 + 4 = 7$
- (G) $4 + 10 = 14$
- (H) $12 - 6 = 6$
- (J) $6 - 5 = 1$

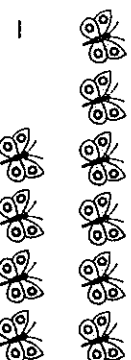
(H) Answer

1.



- (A) $6 + 3 = 9$
- (B) $9 - 3 = 6$
- (C) $3 + 9 = 12$
- (D) $5 - 3 = 8$

4.



- (F) $6 - 4 = 2$
- (G) $18 - 7 = 11$
- (H) $6 + 6 = 12$
- (J) $18 - 2 = 16$

2.



- (F) $7 - 4 = 3$
- (G) $11 - 4 = 7$
- (H) $7 + 4 = 11$
- (J) $12 - 9 = 3$

5.



- (A) $5 - 3 = 2$
- (B) $5 + 4 = 7$
- (C) $5 - 2 = 3$
- (D) $2 + 5 = 7$

3.



- (A) $12 + 12 = 24$
- (B) $21 - 9 = 12$
- (C) $24 - 12 = 12$
- (D) $12 + 9 = 21$

6.



- (F) $20 - 11 = 9$
- (G) $11 - 9 = 2$
- (H) $11 + 9 = 20$
- (J) $20 - 9 = 11$



Mathematics

3.A

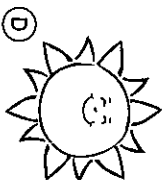
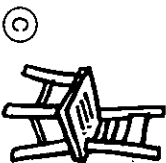
Identifying Attributes of Shapes

Geometry

DIRECTIONS: Choose the best answer.

Example:

Which picture looks the most like a rectangle?



Answer: (B)

1. Which figure has three angles or corners?

- (A) square
- (B) rectangle
- (C) triangle
- (D) circle

2. How many sides does a rectangle have?

- (F) 3
- (G) 4
- (H) 5
- (J) 6

3. What is the name of this figure?

- (A) sphere
- (B) cone
- (C) cylinder
- (D) cube



4. A basketball is shaped like a _____.

- (F) pyramid
- (G) triangle
- (H) sphere
- (J) rectangle

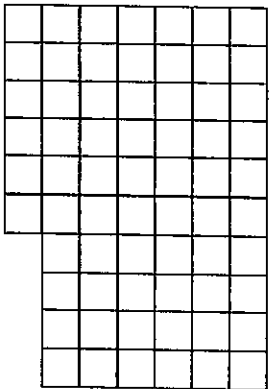
5. Which shape is a rectangle?

- (A)
- (B)
- (C)
- (D)

6. A shape with 5 sides is known as what?

- (F) a rectangle
- (G) a square
- (H) a pentagon
- (J) a circle

9. Which number matches the base ten blocks?



- (A) 45
- (B) 66
- (C) 74
- (D) 76

10. Which number makes both number sentences true?

$9 + \square = 16$

$16 - \square = 9$

- (F) 7
- (G) 16
- (H) 9
- (J) 10

11. $\begin{array}{r} 85 \\ - 37 \\ \hline \end{array}$

- (A) 58
- (B) 48
- (C) 47
- (D) 92

12. Olivia's mom baked 70 cookies for her school party. Olivia brought 48 of them to school. Which number sentence shows the number of cookies left at home?

- (F) $70 + 48 = 118$
- (G) $118 - 48 = 70$
- (H) $70 - 48 = 22$
- (J) $48 - 12 = 36$

13. Which number is next in this pattern?

14, 18, 22, 26, 30, _____

- (A) 32
- (B) 33
- (C) 34
- (D) 35

14. $87 + 42 =$

- (F) $129 - 42$
- (G) $42 + 87$
- (H) $42 - 87$
- (J) $87 + 129$

15. If $21 + \star = 42$, what is \star ?

- (A) 21
- (B) 22
- (C) 23
- (D) 25

16. Jackie was 45 inches tall in January. In October, she was 49 inches tall. Which of these sentences is true?

- (F) Jackie was taller in January.
- (G) Jackie was thinner in January.
- (H) Jackie was shorter in October.
- (J) Jackie was taller in October.

