

# Sample Documents

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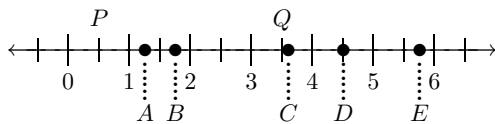
## **SAT Math Prep** **(SAT)**

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1. It takes a painter 4 hours to paint a room. How many hours would it take 3 painters to paint a room 2 times larger? 1. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
- (A) 2      (B)  $2\frac{2}{3}$       (C) 3      (D)  $4\frac{1}{3}$       (E) 6

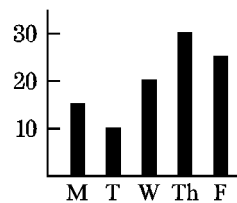


2. If  $P$  and  $Q$  are numbers on the number line, which of the points shown best represents  $2P + Q$ ? 2. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
- (A)  $A$       (B)  $B$       (C)  $C$       (D)  $D$       (E)  $E$

3. Two conveyors feed coal to a furnace. Conveyor A feeds 3 pounds of coal per minute and conveyor B feeds 5 pounds of coal every two minutes. How many minutes does it take both conveyors to feed 99 pounds of coal into the furnace? 3. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
- (A) 9      (B) 11      (C) 15      (D) 18      (E) 21

4. In a coordinate graph system, a circle is drawn whose center is at the origin and whose radius is 5. All of the points described by the following coordinates will fall within the circle *except* 4. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
- (A)  $(-3, -3)$       (B)  $(-2, -3)$       (C)  $(3, 3)$   
 (D)  $(2, -4)$       (E)  $(1, 5)$

5. According to the graph, what percent of auto sales for the week shown were made on Thursday and Friday?



5. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
- (A) 30%      (B) 40%      (C) 45%  
 (D) 50%      (E) 55%

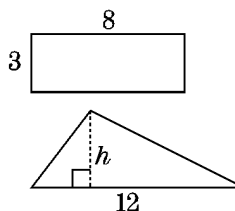
6. Of the following numbers, the one which can be written in the form  $3N$ , where  $N$  is an integer, is

(A) 44                      (B) 4,444                      (C) 44,444  
 (D) 444,444                      (E) 4,444,444

6. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ

7. In the figure, if the area of the rectangle is equal to the area of the triangle, then  $h =$

(A) 1    (B) 2    (C) 3    (D) 4    (E) 5



7. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ

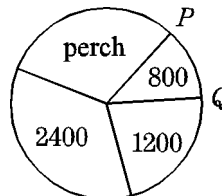
8. In a bag, there are  $b$  brown pencils,  $g$  green pencils, and  $y$  yellow pencils. If a person selects a pencil at random from the bag, what is the probability that it is brown or green?

(A)  $\frac{b+g}{b+g+y}$                       (B)  $\frac{y}{b+g+y}$                       (C)  $\frac{1}{b+g}$   
 (D)  $\frac{b+g}{y}$                       (E)  $\frac{y}{b+g}$

8. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ

9. In the circle graph shown, the 4 sections represent the number of fish in a hatchery pond. If there are 1200 sunfish, 800 bass, and 2400 catfish in this lake and arc  $PQ$  measures  $45^\circ$ , then how many perch are in this lake?

(A) 3,600                      (B) 2,000                      (C) 2,200  
 (D) 3,000                      (E) 1,800



9. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ

10. If  $\begin{vmatrix} a & b \\ c & d \end{vmatrix} = ad - bc$ , then if  $\begin{vmatrix} 2 & x \\ 3 & 5 \end{vmatrix} = \begin{vmatrix} x & 2 \\ 1 & 1 \end{vmatrix}$ ,  $x =$

(A) -3                      (B) 1                      (C) 0                      (D) 3                      (E) 4

10. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ

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Practice SAT Test Ms. Garcia 1/8/99

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**Answer List**

- |       |      |      |
|-------|------|------|
| 1. B  | 2. D | 3. D |
| 4. E  | 5. E | 6. D |
| 7. D  | 8. A | 9. B |
| 10. D |      |      |
- 

**Catalog List**

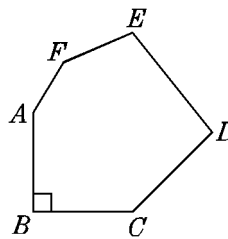
- |               |              |              |
|---------------|--------------|--------------|
| 1. SAT AD 20  | 2. SAT CH 10 | 3. SAT BF 77 |
| 4. SAT CI 28  | 5. SAT ED 16 | 6. SAT DD 6  |
| 7. SAT CK 57  | 8. SAT EC 2  | 9. SAT ED 14 |
| 10. SAT DF 14 |              |              |

1. According to the formula  $F = \frac{9}{5}C + 32$ , if the Fahrenheit ( $F$ ) temperature increased 45 degrees, by how many degrees would the Celsius ( $C$ ) temperature be increased?

1.

.	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

2. In hexagon  $ABCDEF$ ,  $\overline{AB} \perp \overline{BC}$ .  
 $m\angle A + m\angle F + m\angle E + m\angle D + m\angle C =$



2.

.	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

3. Employees in a certain company are each assigned a 4-digit identification number so that no two employees receive the same number and no number begins with a zero. What is the greatest number of employees that can be assigned an identification number?

3.

.	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

4. The table shows the percent correct Sherry received on each of five 40-question tests. How many questions total did Sherry answer correctly on the five tests?

Test No.	% Correct
1	70%
2	80%
3	75%
4	85%
5	95%

4.

.	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9



SUMMARY DIRECTIONS FOR COMPARISON QUESTIONS

Answer: **A** if the quantity in the column A is greater;  
**B** if the quantity in the column B is greater;  
**C** if the quantities are equal;  
**D** if it is not possible to determine which is greater.

**AN E RESPONSE WILL NOT BE SCORED.**

Column A

Column B

10 silver pieces and 1 gold piece have the same value as 3 gold pieces.

1.

Value of 1 gold piece

Value of 5 silver pieces

$$a \star b = \frac{2a - b}{2b - a}$$

2.

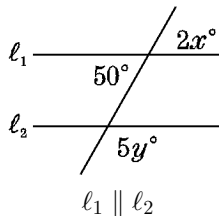
$1 \star (2 \star 3)$

$(1 \star 2) \star 3$

3.

The percent increase resulting from changing a \$10 item to an \$11 item

The percent increase resulting from changing a \$20 item to an \$22 item



4.

$x$

$y$

$$0 \leq A < B \leq 100$$

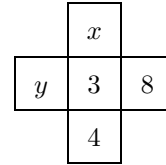
5.

$A\%$  of  $B$

$B\%$  of  $A$

Column A

Column B



The product of the three numbers in the row is equal to the product of the three numbers in the column.

6.

$2y - x$

0

$j, k, \ell, m,$  and  $n$  are consecutive, odd integers.

7.

$\ell$

average value of  $j, k, \ell, m,$  and  $n.$

1 liter = 1,000 milliliters

8.

$\frac{1}{3}$  of a liter

333 milliliters

AUTOMOBILES SOLD



In 1994 the dealer sold 300 cars.

9.

The number of cars each represents

60

Column A

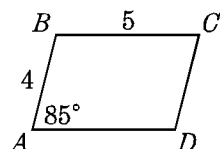
Column B

The ratio of rainy days to sunny days during one month was 3 : 4

10.

The total number of sunny days

20



11.

The area of parallelogram  $ABCD$

20

Andrea has  $p$  pencils and Terry has 2 less than twice as many pencils as Andrea.

12.

The number of pencils that Terry has

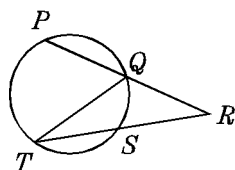
$2p - 4$

$$0 < a < b < c < d < e < f$$

13.

$a + d$

$b + c$



14.

the degree measure of  $\angle QTS$

the degree measure of  $\widehat{QS}$

Column A

Column B

$$x^2 = 16, y^2 = 25$$

15.

$(x + y)(x - y)$

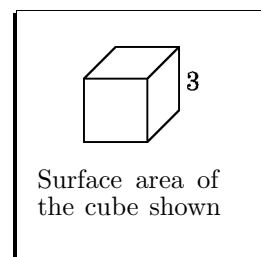
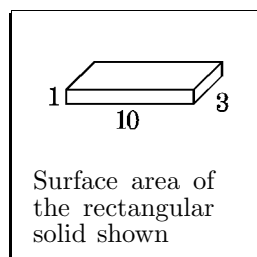
9

16.

0.025

$\frac{1}{4}\%$

17.

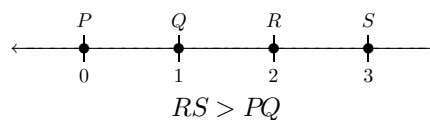


In a bag containing exactly 20 marbles, 3 are black, 9 are blue, and the remainder are white.

18.

The percent of white marbles in the bag

32%



19.

$PR$

$QS$

20.

$4 \times (3 + 3) \div 2$

$(4 \times 3) + (3 \div 2)$

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**Answer List**

- |       |       |       |
|-------|-------|-------|
| 1. C  | 2. B  | 3. C  |
| 4. B  | 5. C  | 6. C  |
| 7. C  | 8. A  | 9. B  |
| 10. B | 11. B | 12. A |
| 13. D | 14. B | 15. B |
| 16. A | 17. A | 18. A |
| 19. B | 20. B |       |
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**Catalog List**

- |               |               |               |
|---------------|---------------|---------------|
| 1. SAT GF 31  | 2. SAT IC 11  | 3. SAT GF 26  |
| 4. SAT HA 6   | 5. SAT GG 4   | 6. SAT GF 54  |
| 7. SAT IE 5   | 8. SAT ID 5   | 9. SAT IF 10  |
| 10. SAT IE 25 | 11. SAT HC 12 | 12. SAT GF 16 |
| 13. SAT GE 92 | 14. SAT HE 13 | 15. SAT GB 87 |
| 16. SAT FA 17 | 17. SAT HF 14 | 18. SAT IE 17 |
| 19. SAT HG 12 | 20. SAT FD 15 |               |