

WALCH  PUBLISHING®

Daily Warm-Ups

SAT PREP

MATH


Table of Contents



Introduction *iv*

Reference Information *v*

Numbers and Operations 1
Algebra and Functions 46
Geometry and Measurement 91
Data Analysis, Statistics, and Probability 136
Answer Key 181



Daily Warm-Ups: SAT Prep—Math is a wonderful way to turn “downtime” into valuable learning time. The 180 quick activities give learners practice in answering questions that mirror those in the math section of the SAT. These daily activities can be used at home or in the classroom. Draw on them to engage students first thing in the morning, or any time during class. Try one during transition time, in the car, or whenever you have minutes that now go unused. Every question helps students prepare for the SAT!

Daily Warm-Ups are available in two convenient formats: an easy-to-use, reproducible book, or as a ready-to-print PDF on the companion CD-ROM. Photocopy activities as needed, or project them on a large screen via your computer.

This collection gives you the opportunity to pick and choose specific skills requiring practice. Follow the Table of Contents for a prescribed sequence of skill coverage, or use activities as needed.

Suggestions for use:

- Browse the Table of Contents to choose an activity to copy or print out and assign.
- Run the CD-ROM and use the search function to look up a specific skill.
- Select a series of activities. Print the selection to create practice packets for learners who need help with specific skills.

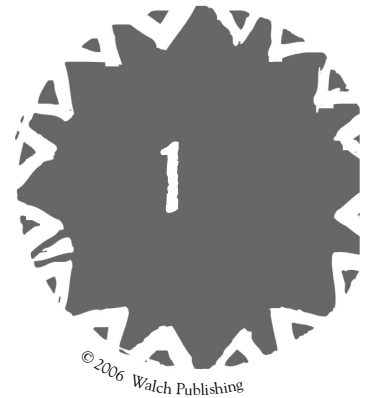


Numbers and Operations

Martha is dividing cookies into packages. If she puts 5 cookies in each package, she will make 33 packages with no cookies left over. If instead she puts 3 cookies in each package, how many packages can she make?

- (A) 11
- (B) 41
- (C) 55
- (D) 99
- (E) 165

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



Numbers and Operations

The weight of 80 screws in a jar of identical screws is 2 ounces.
What is the weight, in ounces, of 4 screws?

- (A) 0.05
- (B) 0.1
- (C) 0.5
- (D) 1
- (E) 10



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



Daily Warm-Ups: SAT Prep—Math

Numbers and Operations

What is the smallest four-digit integer that has a factor of 7?

•	•	•	•
	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



Algebra and Functions

The denominator of a certain fraction is 9 more than its numerator. If the fraction is equal to $\frac{2}{5}$, what is the denominator of this fraction?

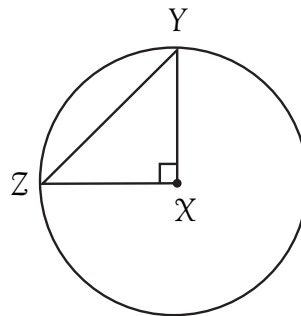
- (A) 4
- (B) 6
- (C) 10
- (D) 15
- (E) 20



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



Geometry and Measurement



In the figure above, X is the center of a circle whose circumference is 64π . Y and Z are points on the circle. If $\angle YXZ$ is a right angle, what is the length of line segment \overline{YZ} ?

- (A) 8
- (B) $8\sqrt{2}$
- (C) 16
- (D) 32
- (E) $32\sqrt{2}$

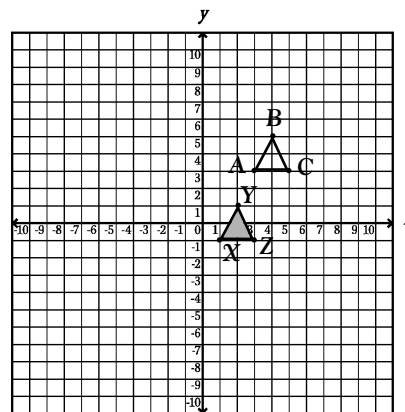
- (A) (B) (C) (D) (E)





Daily Warm-Ups: SAT Prep Math

Geometry and Measurement



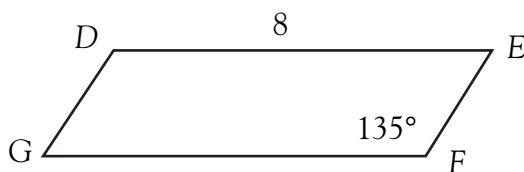
In the figure above, triangle ABC has been translated to produce the shaded triangle XYZ . Which of the following best describes the translation of triangle ABC ?

- (A) a translation 4 units up
- (B) a translation 2 units left
- (C) a translation 4 units down and 2 units left
- (D) a translation 4 units down and 2 units right
- (E) a translation 2 units up and 4 units down

(A) (B) (C) (D) (E)



Geometry and Measurement



In parallelogram $DEFG$, $DE = 8$ and $\angle F = 135^\circ$. If the area of the parallelogram is 16, what is DG ?

- (A) 2
- (B) 4
- (C) 6
- (D) $2\sqrt{2}$
- (E) $4\sqrt{2}$



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










Daily Warm-Ups: SAT Prep—Math

Data Analysis, Statistics, and Probability

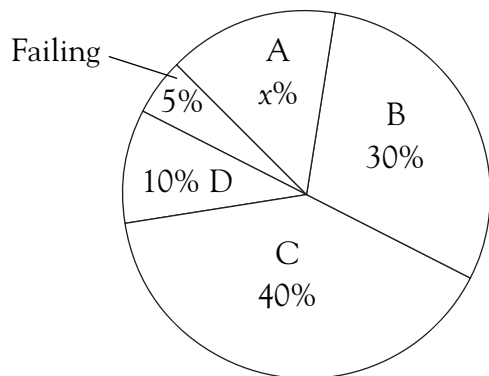
Isabel is making a pictograph to represent the number of days that it rained each month from March through July. On her graph, an umbrella icon represents 2 rainy days. If it rained for 9 days in April, how should this be represented on Isabel's pictograph?

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

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



Data Analysis, Statistics, and Probability



The graph above shows the scores of the junior class on a recent school-wide exam. If 96 students received a C, how many students received an A?



© 2006 Walch Publishing

	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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





Data Analysis, Statistics, and Probability

Number of Soft Drinks	Total Price
1	\$0.95
6 pack	\$4.79
Case of 24	\$15.99

According to the information in the table above, what would be the least amount of money needed, in dollars, to purchase exactly 41 soft drinks?

- (A) \$21.73
- (B) \$30.32
- (C) \$31.98
- (D) \$38.32
- (E) \$38.95

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



Data Analysis, Statistics, and Probability

The average of five numbers is 17. When a sixth number is added to the set, the new average is 15. What is the sixth number?

	/	/	
•	•	•	•
	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

