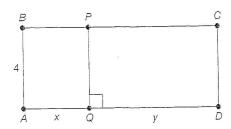
1. W	That is 2	8% of	6005			
. (	(A)		0.47			
(	(B)	2	21.42			
	(C)		168			
	(D)		2,142			
	(E)	1	6,800			
2. 1	5 is wha	at perce	ent of 50	90?		
	(A)		0.03			
	(B)		3			
	(C)		33			
	(D)		75			
	(E)		7,500			
3. (	65 is 20	percen	it of wha	ıt number?	ic	
	(A)		0.31			
	(B)		3.25			
	(C)		13			
	(D)		325			
	(E)		1,300			
4.	300 is v	vhat pe	ercent of	15?		
	(A)		4.5			
	(B)		20			
	(C)		45			
	(D)		450			
	(E)		2000			
the store	is havir	ng a sal	e of 20%	hoes marke % off every s (excluding	thing.	How
(A)		\$24				
(B)		\$96				
(C)		\$114				
(D)		\$144				
(E)		\$240				
7. Two y If it has is the average	ncreased	l by 15	% per ye	infall was : ear since th	30 inche nen, wha	es. at is
(A)		30.0				
(B)		34.5				
(C)		39.0		x		
(D)		39.7				

(E)

67.5

- 400. Triangle A and triangle B are equilateral triangles such that the ratio of the length of one side of triangle A to the length of one side of triangle B is 6 to 7. If the perimeter of triangle A is 9, what is the length of a single side of triangle B?
  - (A)  $\frac{2}{3}$
  - (B)  $\frac{7}{2}$
  - (C) 12
  - (D) 18
  - (E) 21
- 401. In the following figure, *ABCD* is a rectangle such that  $\frac{x}{y} = \frac{1}{5}$ . If the area of *ABPQ* is 12, what is the area of *ABCD*?



- (A) 32
- (B) 56
- (C) 60
- (D) 72
- (E) 112
- **402.** The ratio of x to y is 2 to 3. If the sum of x and y is 125, what is the value of x?
  - (A) 15
  - (B) 25
  - (C) 50
  - (D) 75
  - (E) 100
- **403.** Which of the following represents 0.2% of  $\frac{1}{5}$ ?
  - (A)  $\frac{1}{25,000}$
  - (B)  $\frac{1}{2500}$
  - (C)  $\frac{1}{250}$
  - (D)  $\frac{1}{25}$
  - (E)  $\frac{1}{10}$

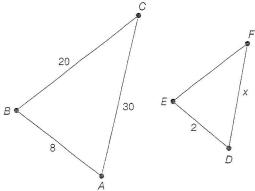
405.	Every student enrolled in a science course is either a physics major or a biology major. If the ratio of physics majors to biology majors is 3 to 1 and there are 21 physics majors enrolled, how many biology majors are enrolled in the course?							
	(A) 7							
	B) 15							
	C) 23							
	D) 45							
	E) 63							
€07 <b>.</b>	he value of a positive number x is 30% of the value of a positive number If 20% of y is 8, what is the value of x?							
	A) 10							
	3) 12							
	C) 16							
	O) 40							
	E) 70							
410.	If the length of one side of a square is 28% of 50, then the area of the square is equal to							
	(A) 70	Washing True (						
	(B) 84	lakubusit, atta						
	(C) 140							
	(D) 196	ense serviciales						
	(E) 289							
411	IF -0/ - C20 : 21 -1	Color Appendix (Color Appendix						
411.	If $q\%$ of 30 is 21, then $q = (A) = 50$							
	(A) 50							
	(B) 60							
	(C) 70							
	(D) 80							
	(E) 90							
	Of 600 items in a storage closet, 40% are pens or pencils, 10% are first-aid tems, and 5% are notebooks. How many items in the storage closet have ot been described?	A A A A A A A A A A A A A A A A A A A						
	A) 45							
	B) 60							
	C) 240							
	D) 270							
	E) 300							
364	A rectangle has a width of 5 meters and a length of 14 meters. If a similar rectangle has a width of 15 meters, what is its perimeter, in meters?							
	(A) 42							
	(B) 58							
	(C) 60							
	(D) 78							
	(E) 114							

416. In the following figure, the ratio of x to y is 1:4. What is the value of x?



- (A) 1
- (B) 2
- (C) 8
- (D) 10
- (E) 13

**367.** In the following figure, triangles *ABC* and *DEF* are similar. What is the value of *x*?



Note: Image not to scale

- (A) 5.0
- (B) 7.5
- (C) 15.0
- (D) 24.0
- (E) 36.5

**361.** If M% of 135 is 54, then M =

- (A) 2.5
- (B) 4
- (C) 25
- (D) 40
- (E) 81

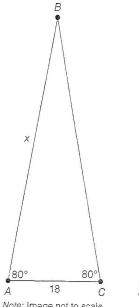
**362.** In a large company, the ratio of full-time to part-time employees is 3:2. If there are 800 total employees, how many are part-time?

- (A) 260
- (B) 320
- (C) 400
- (D) 480
- (E) 530

373.	In an election with two parties, Party A won 54% of the votes. If Party B
	received 874 votes, how many votes were cast in total?
	(A) 400
	(B) 472
	(C) 1619
	(D) 1900
	(E) 2102
374.	Each side of square $A$ has a length of 3 meters, while each side of square $B$ has a length of 9 meters. What is the ratio of the area of square $A$ to the
	area of square B?
	(A) 1:1
	(B) 1:3
	(C) 1:6
	(D) 1:9
	(E) 1:12
702 9	
375.	The ratio of the lengths of each of the sides of a triangle is 4:12:14. If the
	shortest side has a length of 2 feet, what is the perimeter of the triangle in
	feet?
	(A) 15
	(B) 24
	(C) 34
	(D) 57
	(E) 68
376.	In a college with 14,000 students, 490 are majoring in mathematics. What
	percentage of the student body does the number of math majors represent?
	(A) 0.0035%
	(B) 0.035%
	(C) 0.35%
	(D) 3.5%
	(E) 35%
	TOTAL C. 11 is 2 abon we
369.	If 80% of $x + 1$ is 2, then $x =$
	(A) 0.975
	(B) 1.25
	(C) 1.5
	(D) 4
	(E) 5.1
	Points A, B, and C in the following figure are collinear. If the ratio of $m$ to
ì	n is 2:3, what is the value of $n$ in degrees?
	. /
	n° /m°
	A B C
,	·· · · · · · · · · · · · · · · · · · ·

(A) 36(B) 94(C) 108(D) 120(E) 170

**398.** The triangles in the following figure are similar. In terms of x, what is the perimeter of triangle DEF?



Note: Image not to scale

(A) 
$$\frac{x}{6} + 6$$

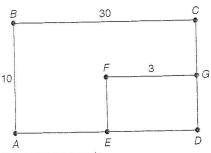
(B) 
$$\frac{x}{3} + 6$$

(C) 
$$\frac{2x}{3} + 6$$

(D) 
$$2x + 6$$

(E) 
$$6x + 6$$

378. In the following figure, rectangles ABCD and EFGD are similar. What is the perimeter of EFGD?



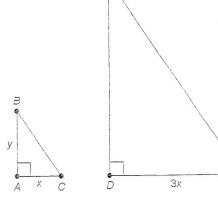
Note: Image not to scale

- (A) 4
- (B) 8
- (C) 26
- (D) 30
- (E) 40

425. A tenant's monthly rent of \$675 will be increased by 3% every year. To the nearest cent, what will be the tenant's monthly rent in 3 years?

- (A) \$695.25
- (B) \$735.75
- (C) \$737.59
- (D) \$781.02
- (E) \$794.66

- 384. The length of a rectangle is 40% larger than its width. If the area of the rectangle is 140 square feet, what is the width of the rectangle in feet?
  - (A) 10
  - (B) 22
  - (C) 35
  - (D) 56
  - (E) 64
- 385. In the following figure, triangles *ABC* and *DEF* are similar. Which of the following expressions represents the area of *DEF* in terms of *x* and *y*?



- (A)  $\frac{xy}{2}$
- (B)  $\frac{3xy}{2}$
- (C) 3xy
- $(D) \frac{9xy}{2}$
- (E) 6xy
- 389. If the ratio of x to y is 1:6, what is the difference between y and x when x = 12?
  - 2.15
  - (A) 5
  - (B) 12
  - (C) 17
  - (D) 60
  - (E) 72
  - **380.** If 80% of a number is 122, what is 40% of the number?
    - (A) 48.8
    - (B) 61.0
    - (C) 73.2
    - (D) 83.0
    - (E) 244.0