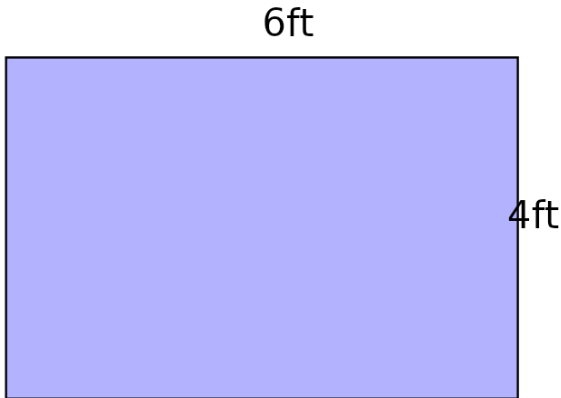




Find area of composite rectangles

1

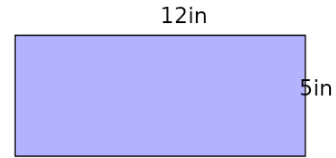
Find the area of this rectangle



- | | |
|----------------------|----------------------|
| A
10ft^2 | B
42ft^2 |
| C
8ft^2 | D
20ft^2 |
| E
24ft^2 | |

2

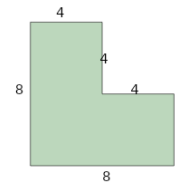
Find the area of this rectangle



- | | |
|----------------------|----------------------|
| A
24in^2 | B
60in^2 |
| C
10in^2 | D
34in^2 |

3

Find the area of the shape



- | | | |
|------|-------|------|
| A 32 | B 108 | C 48 |
| D 90 | E 64 | F 16 |

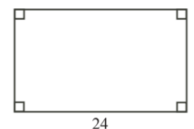
4Which of the following is closest to one million (10^6) seconds?

(A) 1 day (B) 10 days (C) 100 days (D) 1 year (E) 10 years

- | | | |
|--------|--------|--------|
| A
A | B
D | C
B |
| D
E | E
C | |

5

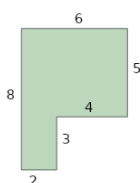
The area of the rectangle shown is 192. What is the perimeter of the rectangle?

(A) 64 (B) 384 (C) 192
(D) 1728 (E) 32

- | | | |
|--------|--------|--------|
| A
B | B
D | C
A |
| D
C | E
E | |

6

Find the area of the shape



- | | | |
|-------|------|------|
| A 100 | B 36 | C 48 |
| D 16 | E 70 | F 12 |

7A 4×4 square grid can be entirely covered by three non-overlapping pieces made from 1×1 squares. If the first two pieces are  and , the third piece is

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

- | | | |
|--------|--------|--------|
| A
C | B
A | C
D |
| D
B | E
E | |



Find area of composite rectangles

8The value of $3^3 - 3^2 + 3^1 - 3^0$ is

(A) 18 (B) 6 (C) 9 (D) 40 (E) 20

A

A

B

B

C

C

D

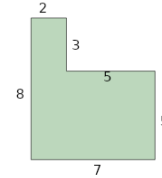
D

E

E

9

Find the area of the shape



A 71

B 132

C 15

D 120

E 41

F 90

10

Subesha wrote down Davina's phone number in her math binder. Later that day, while correcting her homework, Subesha accidentally erased the last two digits of the phone number, leaving 893-44___. Subesha tries to call Davina by dialing phone numbers starting with 893-44. What is the least number of phone calls that she has to make to be guaranteed to reach Davina's house?

(A) 100 (B) 90 (C) 10 (D) 1000 (E) 20

A

C

B

D

C

B

D

A

E

E

11The value of $6\left(\frac{3}{2} + \frac{2}{3}\right)$ is(A) 13 (B) 6 (C) $\frac{13}{6}$ (D) $\frac{29}{3}$ (E) 5

A

B

B

D

C

A

D

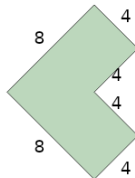
C

E

E

12

Find the area of the shape



A 48

B 99

C 16

D 90

E 120

F 32