Change each word problem into a numerical expression and find the answer.

(Ex.1)   15 is to be increased **by** the difference of 7 and 5.

(a) numerical expression : $15 + (7 - 5)$

(b) answer : 17

(Ex.2)   10 is to be decreased **by** the sum of 2 and 4.

(a) numerical expression : $10 - (2 + 4)$

(b) answer : 4

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(1)   15 is to be increased **by** the difference of 7 and 5.

(a) numerical expression : (   ) + (   )

(b) answer : _____

(2)   11 is to be decreased **by** the difference of 8 and 6.

(a) numerical expression : (   ) − (   )

(b) answer : _____

(3)   10 is to be increased by the product of 3 and 2.

(a) numerical expression : (   ) + (   )

(b) answer : _____

(4)   21 is to be decreased by the quotient of 18 and 6.

(a) numerical expression : (   ) − (   )

(b) answer : _____

(5)   21 is to be increased by the difference of 6 and 2.

(a) numerical expression : (   ) + (   )

(b) answer : _____

(6)   18 is to be decreased by the difference of 12 and 10.

(a) numerical expression : (   ) − (   )

(b) answer : _____

(7)   20 is to be increased by the quotient of 15 and 5.

(a) numerical expression : (   ) + (   )

(b) answer : _____

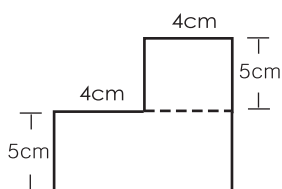(8)   20 is to be decreased by the sum of 4 and 6.

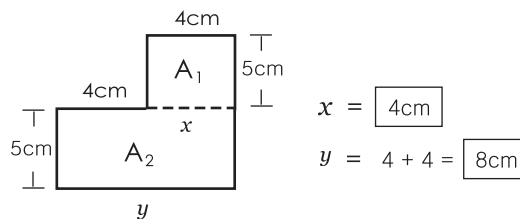(a) numerical expression : (   ) − (   )

(b) answer : _____

Find the combined areas of each figure.

(Ex.)

4cm

5cm

4cm

5cm

Step1   Find missing sides.

4cm

A_1 5cm

4cm

5cm x

A_2

y

$x = $ 4cm

$y = $ 4 + 4 = 8cm

Step2   Divide the whole figure into squares or rectangles (A_1 and A_2).

4cm

A_1 5cm

8cm

5cm A_2

A_1 (area) = 4 × 5 = 20 cm^2
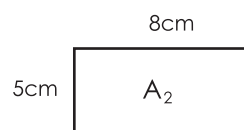
A_2 (area) = 8 × 5 = 40 cm^2

Step3   Add two areas.

$A_1 + A_2 = $ 20 + 40 = 60 cm^2

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(1)

3cm

4cm

6cm

x

5cm

y
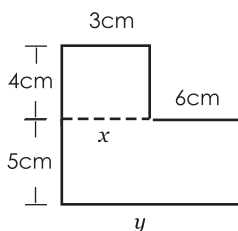
Step1   Find the measures of x and y.

$x = $ _____ cm

$y = $ _____ cm

Step2   Separate the figure into two areas.
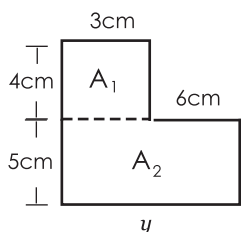
3cm

4cm A_1

6cm

5cm A_2

y

=

3cm

4cm A_1

+

$y = $ ☐

A_2 5cm

Area (A_1) = _____ cm^2 Area (A_2) = _____ cm^2

Step3   The total area = $A_1 + A_2 = $ _____ cm^2