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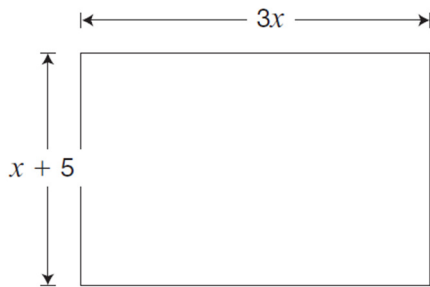
MULTIPLE CHOICE PROBLEMS

- 1** Which of the following is a simplified form of the expression below?

$$7(3x + 5)$$

- a $56x$
- b $10x + 12$
- c $21x + 5$
- d $21x + 35$

- 2** A rectangle is shown below with algebraic expressions for its length and width in centimetres.



Which expression represents the area of the rectangle in cm^2 ?

- a $4x + 5$
 - b $8x + 10$
 - c $3x^2 + 5$
 - d $3x^2 + 15x$
- 3** Which is a simplified form of $3x(7x - 2)$?
- a $21x^2 - 2x$
 - b $21x^2 - 2$
 - c $21x^2 - 6$
 - d $21x^2 - 6x$

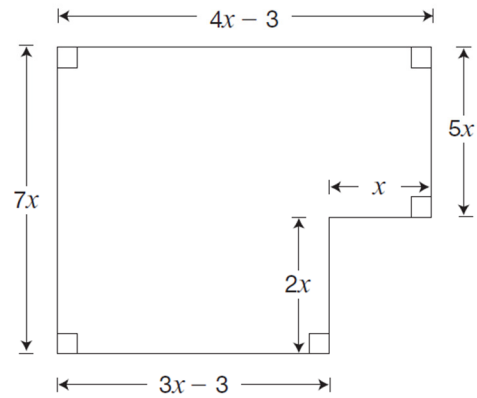
- 4** Which of the following is equivalent to

$$3(5x - 1) - 2(3x + 5)?$$

- a $9x - 13$
- b $9x + 4$
- c $21x - 13$
- d $21x + 4$

5 Floored Areas

The diagram of the floor shown below has algebraic expressions for the lengths of its sides, in metres.



Determine an unsimplified expression for the **total area** of the floor, A , in m^2 .

$A =$ _____

Simplify your expression fully. Show your work.

ANSWERS

1) d 2) d 3) d 4) a

5) Unsimplified: Many correct answers exist. For example, $7x(3x-3) + x(5x)$ or $2x(3x-3) + 5x(4x-3)$ or $7x(4x-3) - x(2x)$

Simplified: $26x^2 - 21x$