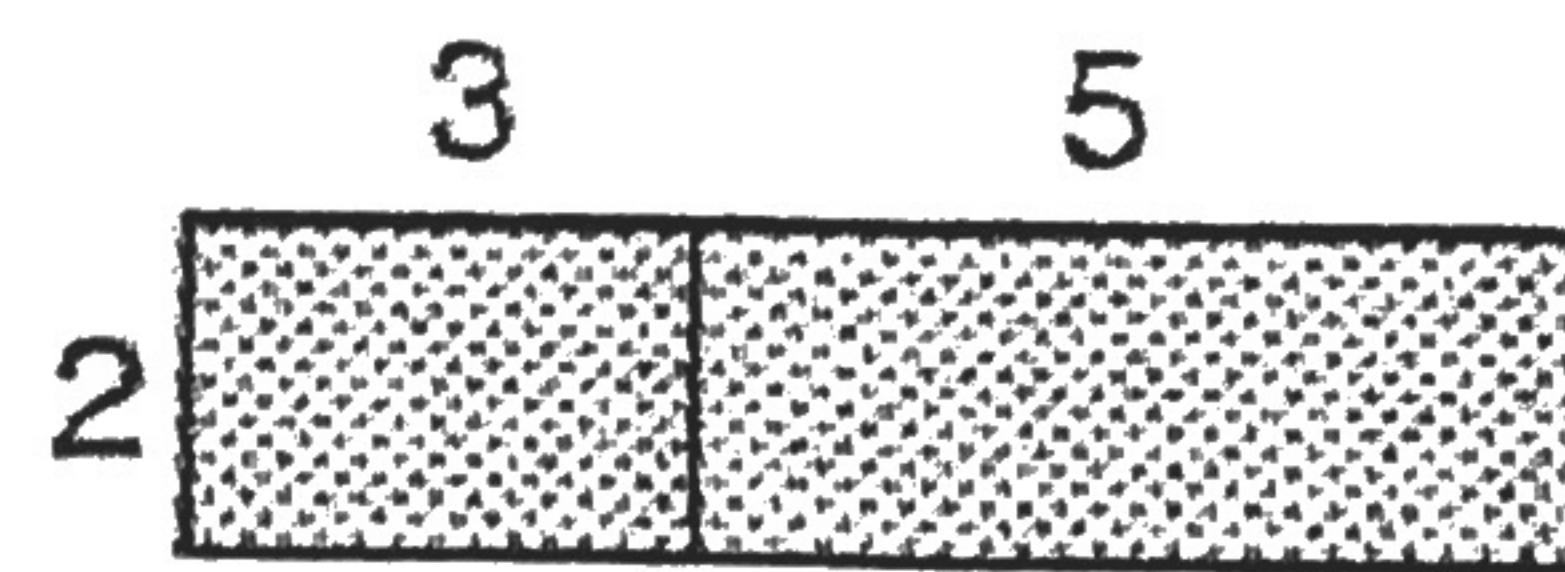


# Expressions and Areas

1. (a) Check (✓) every expression that represents the area shaded in the following diagram:



i $2 \times 3 + 5$	ii $2 \times 3 + 2 \times 5$	iii $3 + 5 \times 2$	iv $3 + 5 + 3 + 5$	v $2 \times (3 + 5)$
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Explain your choices:

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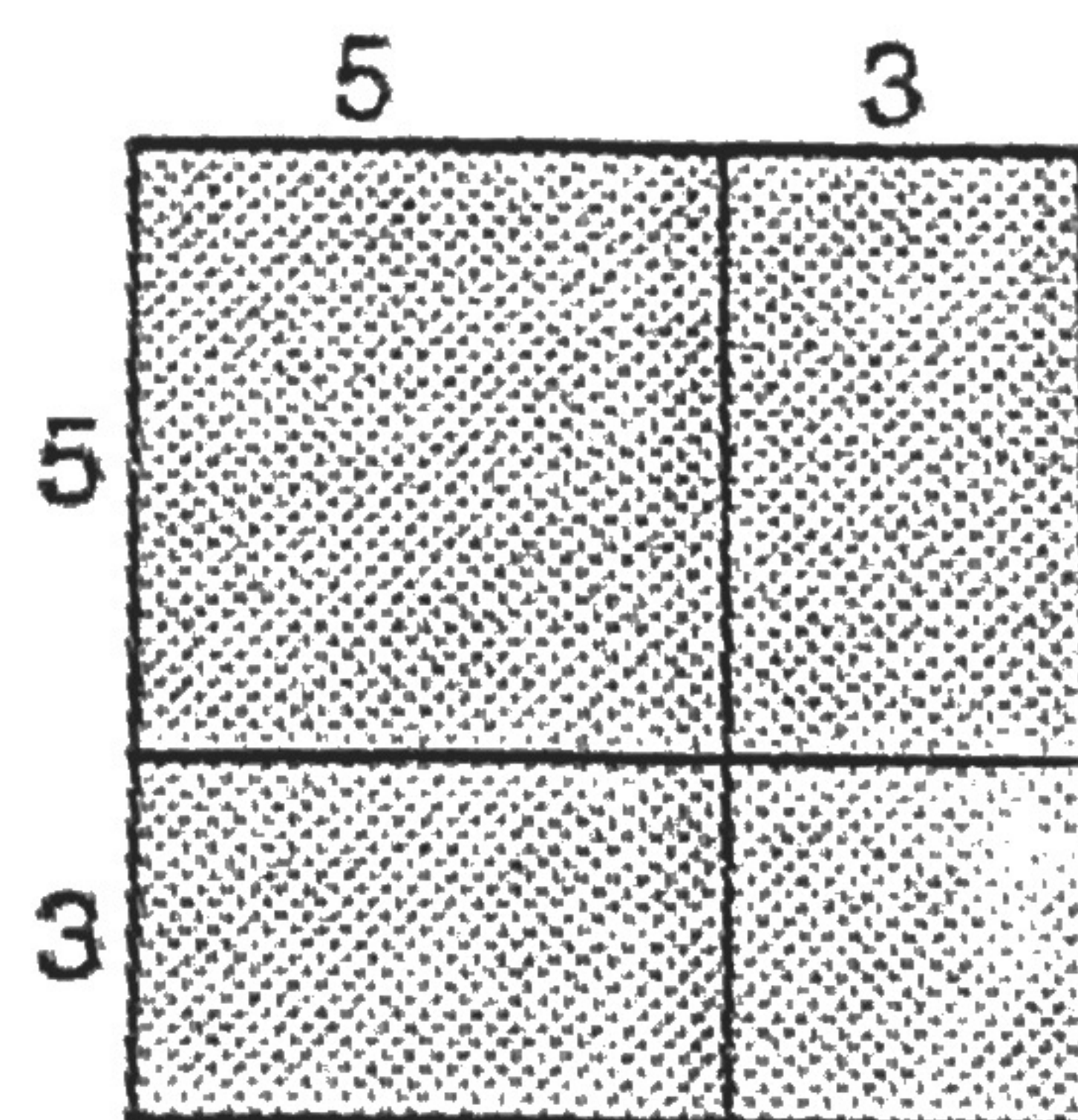


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(b) Check (✓) every expression that represents the area shaded in the following diagram:



i $5 \times 5 + 2 \times 5 \times 3 + 3 \times 3$	ii $5^2 + 3^2$	iii $5 + 3 \times 5 + 3$	iv $(5 + 3)^2$	v $(5 + 3) \times (5 + 3)$
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Explain your choices:

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2. (a) Explain the difference in meaning between  $10 \times 4 + 5$  and  $10 \times (4 + 5)$ .  
Use words or diagrams to help your explanation.

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- (b) Explain the difference in meaning between  $8^2 + 2^2$  and  $(8 + 2)^2$ .  
Use words or diagrams to help your explanation.

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- (c) Explain the difference in meaning between  $\frac{8+6}{2}$  and  $8+6 \div 2$ .  
Use words or diagrams to help your explanation.

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