



# New Maths GCSE: N16 - Calculations with Bounds

Name:.....

Date:.....

m is 45.2 to 1 decimal place  
v is 30 to the nearest 10

What sum gives the upper bound of  $m \times v$

A)  $45.3 \times 35$     B)  $45.25 \times 30.5$

C)  $45.25 \times 35$     D)  $50 \times 40$

Correct Answer: A B C D

Explanation:

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m is 2000 to the nearest 10  
v is 500 to the nearest 100

What sum gives the lower bound of  $m + v$

A)  $1995 + 450$     B)  $1990 + 400$

C)  $1950 + 495$     D)  $1950 + 450$

Correct Answer: A B C D

Explanation:

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m is 390 to the nearest 10  
v is 200 to the nearest 100

What sum gives the lower bound of  $m - v$

A)  $385 - 150$     B)  $395 - 150$

C)  $385 - 250$     D) None of them

Correct Answer: A B C D

Explanation:

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m is 25 to the nearest whole number  
v is 4.3 to 1 decimal place

What sum gives the lower bound of  $m - v$

A)  $24 - 4.2$       B)  $24.5 - 4.25$

C)  $25.5 - 4.35$       D) None of them

Correct Answer: A B C D

Explanation:

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m is 600 to the nearest 10  
v is 300 to the nearest 100

What sum gives the lower bound of  $m \times v$

A)  $590 \times 200$       B)  $595 \times 250$

C)  $595 \times 295$       D)  $550 \times 250$

Correct Answer: A B C D

Explanation:

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m is 20.2 to 1 decimal place  
v is 6.72 to 2 decimal places

What sum gives the lower bound of  $m \div v$

A)  $20.15 \div 6.715$       B)  $20.2 \div 6.72$

C)  $20.15 \div 6.725$       D) None of them

Correct Answer: A B C D

Explanation:

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m is 40.0 to 1 decimal place  
v is 2.8 to 1 decimal place

What sum gives the upper bound of  $m \div v$

A)  $40.5 \div 2.75$       B)  $40.05 \div 2.85$

C)  $40.05 \div 2.75$       D) None of them

Correct Answer: A B C D

Explanation:

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m is 50 to the nearest 10  
v is 600 to the nearest 100

What sum gives the upper bound of  $m \div v$

- A)**  $650 \div 55$       **B)**  $55 \div 650$   
**C)**  $55 \div 550$       **D)** None of them

Correct Answer: A B C D

Explanation:

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