

TARGET To connect the 2, 4 and 8 times tables by doubling and halving.

Example 1 30×8

Double 30, double and double again to multiply by 8.

$30 \rightarrow 60 \rightarrow 120 \rightarrow 240$

Answer 240

Example 2 $1000 \div 8$

Halve 1000, halve and halve again to divide by 8.

$1000 \rightarrow 500 \rightarrow 250 \rightarrow 125$

Answer 125

A

Double and double again to multiply each number by 4.

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|------|------|
| 1 3 | 5 12 |
| 2 40 | 6 25 |
| 3 15 | 7 90 |
| 4 7 | 8 21 |

Halve and halve again to divide each number by 4.

- | | |
|--------|-------|
| 9 40 | 13 20 |
| 10 28 | 14 44 |
| 11 120 | 15 24 |
| 12 32 | 16 60 |

B

Double, double and double again to multiply each number by 8.

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|------|------|
| 1 8 | 5 6 |
| 2 13 | 6 20 |
| 3 25 | 7 55 |
| 4 70 | 8 18 |

Halve, halve and halve again to divide each number by 8.

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|--------|--------|
| 9 600 | 13 120 |
| 10 88 | 14 640 |
| 11 40 | 15 360 |
| 12 480 | 16 112 |