

Multiply by 4 by doubling twice

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Did you know that you can multiply by 4 by doubling and then doubling again! Let's look at 16×4 .

Double 16 is 32.

Double 32 is 64. 16×4 is 64

Why does this work? Simply because $2 \times 2 = 4$, so multiplying by 2 (doubling) then multiplying by 2 again is exactly the same as multiplying by 4.

Try to answer these questions by doubling twice.



1. 13×4

2. 18×4

3. 22×4



4. 35×4

5. 43×4

6. 70×4

7. 110×4

8. 230×4

9. 150×4



10. 240×4

11. 120×4

12. 160×4



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Answers

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|--------|--------|--------|---------|---------|---------|
| 1. 52 | 2. 72 | 3. 88 | 4. 140 | 5. 172 | 6. 280 |
| 7. 440 | 8. 920 | 9. 600 | 10. 960 | 11. 480 | 12. 640 |

Answers

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|----|------|------|------|------|
| 1. | 1.7 | 0.71 | 0.7 | 0.17 |
| 2. | 3.13 | 3.01 | 1.3 | 0.13 |
| 3. | 2.4 | 2.14 | 0.41 | 0.4 |
| 4. | 1.1 | 1.01 | 0.1 | 0.01 |
| 5. | 3.2 | 3.02 | 2.3 | 2.03 |
| 6. | 5.5 | 5.05 | 0.55 | 0.5 |