

Mental math — Make round numbers

Name: _____

Date: _____



Find the two numbers that make 100 and use them first.

$$\begin{aligned} 1 \quad & 69 + 57 + 31 \\ & = (69 + 31) + 57 \\ & = \underline{100} + 57 \\ & = \underline{157} \end{aligned}$$

$$\begin{aligned} 2 \quad & 208 - 86 - 14 \\ & = 208 - (86 + 14) \\ & = 208 - \underline{\quad} \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 3 \quad & 534 - 78 - 22 \\ & = 534 - (78 + 22) \\ & = 534 - \underline{\quad} \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 4 \quad & 84 + 80 + 16 \\ & = (84 + 16) + 80 \\ & = \underline{\quad} + 80 \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 5 \quad & 428 - 76 - 24 \\ & = 428 - (76 + 24) \\ & = 428 - \underline{\quad} \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 6 \quad & 68 + 20 + 32 \\ & = (68 + 32) + 20 \\ & = \underline{\quad} + 20 \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 7 \quad & 852 - 84 - 16 \\ & = 852 - (84 + 16) \\ & = 852 - \underline{\quad} \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 8 \quad & 57 + 69 + 43 \\ & = (57 + 43) + 69 \\ & = \underline{\quad} + 69 \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 9 \quad & 444 - 48 - 52 \\ & = 444 - (48 + 52) \\ & = 444 - \underline{\quad} \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 10 \quad & 248 - 16 - 84 \\ & = 248 - (16 + 84) \\ & = 248 - \underline{\quad} \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 11 \quad & 67 + 59 + 33 \\ & = (67 + 33) + 59 \\ & = \underline{\quad} + 59 \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 12 \quad & 59 + 67 + 41 \\ & = (59 + 41) + 67 \\ & = \underline{\quad} + 67 \\ & = \underline{\quad} \end{aligned}$$



Mental math — Round and adjust (+ -)

Name: _____

Date: _____



Use the round number, then adjust.

1 $676 - 98$
 $= 676 - 100 + 2$
 $= \underline{576} + 2$
 $= \underline{578}$

2 $98 + 99$
 $= 100 + 100 - 2 - 1$
 $= \underline{\quad} - \underline{\quad}$
 $= \underline{\quad}$

3 $725 + 299$
 $= 725 + 300 - 1$
 $= \underline{\quad} - 1$
 $= \underline{\quad}$

4 $99 + 197$
 $= 100 + 200 - 1 - 3$
 $= \underline{\quad} - \underline{\quad}$
 $= \underline{\quad}$

5 $721 - 99$
 $= 721 - 100 + 1$
 $= \underline{\quad} + 1$
 $= \underline{\quad}$

6 $534 - 98$
 $= 534 - 100 + 2$
 $= \underline{\quad} + 2$
 $= \underline{\quad}$

7 $298 + 399$
 $= 300 + 400 - 2 - 1$
 $= \underline{\quad} - \underline{\quad}$
 $= \underline{\quad}$

8 $699 + 198$
 $= 699 + 200 - 2$
 $= \underline{\quad} - 2$
 $= \underline{\quad}$

9 $621 + 99$
 $= 621 + 100 - 1$
 $= \underline{\quad} - 1$
 $= \underline{\quad}$

10 $715 - 102$
 $= 715 - 100 - 2$
 $= \underline{\quad} - 2$
 $= \underline{\quad}$

11 $576 + 98$
 $= 576 + 100 - 2$
 $= \underline{\quad} - 2$
 $= \underline{\quad}$

12 $98 + 499$
 $= 100 + 500 - 2 - 1$
 $= \underline{\quad} - \underline{\quad}$
 $= \underline{\quad}$



Mental math — Friendly pairs (×)

Name: _____

Date: _____



Find the pair that makes a round number and multiply it first.

1 125×48
 $= 125 \times 8 \times 6$
 $= \underline{1000} \times 6$
 $= \underline{6000}$

2 $25 \times 18 \times 4$
 $= 25 \times 4 \times 18$
 $= \underline{\quad} \times 18$
 $= \underline{\quad}$

3 125×88
 $= 125 \times 8 \times 11$
 $= \underline{\quad} \times 11$
 $= \underline{\quad}$

4 $50 \times 7 \times 2$
 $= 50 \times 2 \times 7$
 $= \underline{\quad} \times 7$
 $= \underline{\quad}$

5 5×18
 $= 5 \times 2 \times 9$
 $= \underline{\quad} \times 9$
 $= \underline{\quad}$

6 $25 \times 3 \times 4$
 $= 25 \times 4 \times 3$
 $= \underline{\quad} \times 3$
 $= \underline{\quad}$

7 5×24
 $= 5 \times 2 \times 12$
 $= \underline{\quad} \times 12$
 $= \underline{\quad}$

8 25×28
 $= 25 \times 4 \times 7$
 $= \underline{\quad} \times 7$
 $= \underline{\quad}$

9 $5 \times 29 \times 2$
 $= 5 \times 2 \times 29$
 $= \underline{\quad} \times 29$
 $= \underline{\quad}$

10 5×10
 $= 5 \times 2 \times 5$
 $= \underline{\quad} \times 5$
 $= \underline{\quad}$

11 $25 \times 14 \times 4$
 $= 25 \times 4 \times 14$
 $= \underline{\quad} \times 14$
 $= \underline{\quad}$

12 $125 \times 28 \times 8$
 $= 125 \times 8 \times 28$
 $= \underline{\quad} \times 28$
 $= \underline{\quad}$



Mental math — Round and adjust (×)

Name: _____

Date: _____



Use the round number, then adjust.

$$\begin{aligned} 1 \quad 999 \times 7 \\ &= (1000 - 1) \times 7 \\ &= \underline{7000} - \underline{7} \\ &= \underline{6993} \end{aligned}$$

$$\begin{aligned} 2 \quad 101 \times 36 \\ &= (100 + 1) \times 36 \\ &= \underline{\quad} + \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 3 \quad 23 \times 102 \\ &= 23 \times (100 + 2) \\ &= \underline{\quad} + \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 4 \quad 102 \times 7 \\ &= (100 + 2) \times 7 \\ &= \underline{\quad} + \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 5 \quad 12 \times 9 \\ &= 12 \times (10 - 1) \\ &= \underline{\quad} - \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 6 \quad 12 \times 99 \\ &= 12 \times (100 - 1) \\ &= \underline{\quad} - \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 7 \quad 9 \times 49 \\ &= 9 \times (50 - 1) \\ &= \underline{\quad} - \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 8 \quad 4 \times 102 \\ &= 4 \times (100 + 2) \\ &= \underline{\quad} + \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 9 \quad 5 \times 101 \\ &= 5 \times (100 + 1) \\ &= \underline{\quad} + \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 10 \quad 99 \times 15 \\ &= (100 - 1) \times 15 \\ &= \underline{\quad} - \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 11 \quad 101 \times 23 \\ &= (100 + 1) \times 23 \\ &= \underline{\quad} + \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 12 \quad 6 \times 999 \\ &= 6 \times (1000 - 1) \\ &= \underline{\quad} - \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$



Mental math — Split and combine

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Split or combine to make the multiplication easy.

$$\begin{aligned} 1 \quad 45 \times 17 \\ &= 45 \times 10 + 45 \times 7 \\ &= \underline{450} + \underline{315} \\ &= \underline{765} \end{aligned}$$

$$\begin{aligned} 2 \quad 12 \times 23 \\ &= 12 \times 20 + 12 \times 3 \\ &= \underline{\quad} + \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 3 \quad 31 \times 9 + 69 \times 9 \\ &= (31 + 69) \times 9 \\ &= \underline{\quad} \times 9 \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 4 \quad 15 \times 12 \\ &= 15 \times 10 + 15 \times 2 \\ &= \underline{\quad} + \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 5 \quad 16 \times 18 \\ &= 16 \times 10 + 16 \times 8 \\ &= \underline{\quad} + \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 6 \quad 61 \times 12 - 11 \times 12 \\ &= (61 - 11) \times 12 \\ &= \underline{\quad} \times 12 \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 7 \quad 37 \times 12 + 63 \times 12 \\ &= (37 + 63) \times 12 \\ &= \underline{\quad} \times 12 \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 8 \quad 73 \times 6 + 27 \times 6 \\ &= (73 + 27) \times 6 \\ &= \underline{\quad} \times 6 \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 9 \quad 87 \times 12 - 37 \times 12 \\ &= (87 - 37) \times 12 \\ &= \underline{\quad} \times 12 \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 10 \quad 63 \times 6 - 13 \times 6 \\ &= (63 - 13) \times 6 \\ &= \underline{\quad} \times 6 \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 11 \quad 49 \times 7 + 51 \times 7 \\ &= (49 + 51) \times 7 \\ &= \underline{\quad} \times 7 \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 12 \quad 87 \times 4 - 37 \times 4 \\ &= (87 - 37) \times 4 \\ &= \underline{\quad} \times 4 \\ &= \underline{\quad} \end{aligned}$$



Mental math — Divide in steps

Name: _____

Date: _____



Divide in easy steps.

1 $515 \div 5$
 $= 515 \times 2 \div 10$
 $= \underline{1030} \div 10$
 $= \underline{103}$

2 $455 \div 5$
 $= 455 \times 2 \div 10$
 $= \underline{\quad} \div 10$
 $= \underline{\quad}$

3 $1675 \div 25$
 $= 1675 \times 4 \div 100$
 $= \underline{\quad} \div 100$
 $= \underline{\quad}$

4 $575 \div 25$
 $= 575 \times 4 \div 100$
 $= \underline{\quad} \div 100$
 $= \underline{\quad}$

5 $175 \div 25$
 $= 175 \times 4 \div 100$
 $= \underline{\quad} \div 100$
 $= \underline{\quad}$

6 $428 \div 4$
 $= 428 \div 2 \div 2$
 $= \underline{\quad} \div 2$
 $= \underline{\quad}$

7 $700 \div 25 \div 4$
 $= 700 \div (25 \times 4)$
 $= 700 \div \underline{\quad}$
 $= \underline{\quad}$

8 $3000 \div 125 \div 8$
 $= 3000 \div (125 \times 8)$
 $= 3000 \div \underline{\quad}$
 $= \underline{\quad}$

9 $11000 \div 125 \div 8$
 $= 11000 \div (125 \times 8)$
 $= 11000 \div \underline{\quad}$
 $= \underline{\quad}$

10 $125 \div 5$
 $= 125 \times 2 \div 10$
 $= \underline{\quad} \div 10$
 $= \underline{\quad}$

11 $388 \div 4$
 $= 388 \div 2 \div 2$
 $= \underline{\quad} \div 2$
 $= \underline{\quad}$

12 $268 \div 4$
 $= 268 \div 2 \div 2$
 $= \underline{\quad} \div 2$
 $= \underline{\quad}$



Mental math — Mixed strategies

Name: _____

Date: _____



Find the easy way, then work it out.

$$\begin{aligned} 1 \quad & 305 + 101 \\ & = 305 + 100 + 1 \\ & = \underline{405} + 1 \\ & = \underline{406} \end{aligned}$$

$$\begin{aligned} 2 \quad & 11 \times 18 \\ & = 11 \times 10 + 11 \times 8 \\ & = \underline{\quad} + \underline{\quad} \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 3 \quad & 475 \div 25 \\ & = 475 \times 4 \div 100 \\ & = \underline{\quad} \div 100 \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 4 \quad & 25 \times 17 \times 4 \\ & = 25 \times 4 \times 17 \\ & = \underline{\quad} \times 17 \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 5 \quad & 815 \div 5 \\ & = 815 \times 2 \div 10 \\ & = \underline{\quad} \div 10 \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 6 \quad & 338 - 46 - 54 \\ & = 338 - (46 + 54) \\ & = 338 - \underline{\quad} \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 7 \quad & 669 - 299 \\ & = 669 - 300 + 1 \\ & = \underline{\quad} + 1 \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 8 \quad & 101 \times 23 \\ & = (100 + 1) \times 23 \\ & = \underline{\quad} + \underline{\quad} \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 9 \quad & 61 \times 4 - 11 \times 4 \\ & = (61 - 11) \times 4 \\ & = \underline{\quad} \times 4 \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 10 \quad & 68 + 20 + 32 \\ & = (68 + 32) + 20 \\ & = \underline{\quad} + 20 \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 11 \quad & 628 \div 4 \\ & = 628 \div 2 \div 2 \\ & = \underline{\quad} \div 2 \\ & = \underline{\quad} \end{aligned}$$

$$\begin{aligned} 12 \quad & 29 \times 3 \\ & = (30 - 1) \times 3 \\ & = \underline{\quad} - \underline{\quad} \\ & = \underline{\quad} \end{aligned}$$



Power Pack · Mental math strategies — Answer key



Make 100 (+ -)

- | | | | |
|--|---|--|--|
| 1. $69 + 57 + 31 = (69 + 31) + 57 = 100 + 57 = 157$ | 2. $208 - 86 - 14 = 208 - (86 + 14) = 208 - 100 = 108$ | 3. $534 - 78 - 22 = 534 - (78 + 22) = 534 - 100 = 434$ | 4. $84 + 80 + 16 = (84 + 16) + 80 = 100 + 80 = 180$ |
| 5. $428 - 76 - 24 = 428 - (76 + 24) = 428 - 100 = 328$ | 6. $68 + 20 + 32 = (68 + 32) + 20 = 100 + 20 = 120$ | 7. $852 - 84 - 16 = 852 - (84 + 16) = 852 - 100 = 752$ | 8. $57 + 69 + 43 = (57 + 43) + 69 = 100 + 69 = 169$ |
| 9. $444 - 48 - 52 = 444 - (48 + 52) = 444 - 100 = 344$ | 10. $248 - 16 - 84 = 248 - (16 + 84) = 248 - 100 = 148$ | 11. $67 + 59 + 33 = (67 + 33) + 59 = 100 + 59 = 159$ | 12. $59 + 67 + 41 = (59 + 41) + 67 = 100 + 67 = 167$ |

Round and adjust (+ -)

- | | | | |
|---|--|--|--|
| 1. $676 - 98 = 676 - 100 + 2 = 576 + 2 = 578$ | 2. $98 + 99 = 100 + 100 - 2 - 1 = 200 - 3 = 197$ | 3. $725 + 299 = 725 + 300 - 1 = 1025 - 1 = 1024$ | 4. $99 + 197 = 100 + 200 - 1 - 3 = 300 - 4 = 296$ |
| 5. $721 - 99 = 721 - 100 + 1 = 621 + 1 = 622$ | 6. $534 - 98 = 534 - 100 + 2 = 434 + 2 = 436$ | 7. $298 + 399 = 300 + 400 - 2 - 1 = 700 - 3 = 697$ | 8. $699 + 198 = 699 + 200 - 2 = 899 - 2 = 897$ |
| 9. $621 + 99 = 621 + 100 - 1 = 721 - 1 = 720$ | 10. $715 - 102 = 715 - 100 - 2 = 615 - 2 = 613$ | 11. $576 + 98 = 576 + 100 - 2 = 676 - 2 = 674$ | 12. $98 + 499 = 100 + 500 - 2 - 1 = 600 - 3 = 597$ |

Friendly pairs (×)

- | | | | |
|---|---|--|--|
| 1. $125 \times 48 = 125 \times 8 \times 6 = 1000 \times 6 = 6000$ | 2. $25 \times 18 \times 4 = 25 \times 4 \times 18 = 100 \times 18 = 1800$ | 3. $125 \times 88 = 125 \times 8 \times 11 = 1000 \times 11 = 11000$ | 4. $50 \times 7 \times 2 = 50 \times 2 \times 7 = 100 \times 7 = 700$ |
| 5. $5 \times 18 = 5 \times 2 \times 9 = 10 \times 9 = 90$ | 6. $25 \times 3 \times 4 = 25 \times 4 \times 3 = 100 \times 3 = 300$ | 7. $5 \times 24 = 5 \times 2 \times 12 = 10 \times 12 = 120$ | 8. $25 \times 28 = 25 \times 4 \times 7 = 100 \times 7 = 700$ |
| 9. $5 \times 29 \times 2 = 5 \times 2 \times 29 = 10 \times 29 = 290$ | 10. $5 \times 10 = 5 \times 2 \times 5 = 10 \times 5 = 50$ | 11. $25 \times 14 \times 4 = 25 \times 4 \times 14 = 100 \times 14 = 1400$ | 12. $125 \times 28 \times 8 = 125 \times 8 \times 28 = 1000 \times 28 = 28000$ |

Round and adjust (×)

- | | | | |
|---|---|---|---|
| 1. $999 \times 7 = (1000 - 1) \times 7 = 7000 - 7 = 6993$ | 2. $101 \times 36 = (100 + 1) \times 36 = 3600 + 36 = 3636$ | 3. $23 \times 102 = 23 \times (100 + 2) = 2300 + 46 = 2346$ | 4. $102 \times 7 = (100 + 2) \times 7 = 700 + 14 = 714$ |
|---|---|---|---|

Power Pack · Mental math strategies — Answer key



Round and adjust (×)

$$5. 12 \times 9 = 12 \times (10 - 1) = 120 - 12 = 108$$

$$6. 12 \times 99 = 12 \times (100 - 1) = 1200 - 12 = 1188$$

$$7. 9 \times 49 = 9 \times (50 - 1) = 450 - 9 = 441$$

$$8. 4 \times 102 = 4 \times (100 + 2) = 400 + 8 = 408$$

$$9. 5 \times 101 = 5 \times (100 + 1) = 500 + 5 = 505$$

$$10. 99 \times 15 = (100 - 1) \times 15 = 1500 - 15 = 1485$$

$$11. 101 \times 23 = (100 + 1) \times 23 = 2300 + 23 = 2323$$

$$12. 6 \times 999 = 6 \times (1000 - 1) = 6000 - 6 = 5994$$

Split and combine (×)

$$1. 45 \times 17 = 45 \times 10 + 45 \times 7 = 450 + 315 = 765$$

$$2. 12 \times 23 = 12 \times 20 + 12 \times 3 = 240 + 36 = 276$$

$$3. 31 \times 9 + 69 \times 9 = (31 + 69) \times 9 = 100 \times 9 = 900$$

$$4. 15 \times 12 = 15 \times 10 + 15 \times 2 = 150 + 30 = 180$$

$$5. 16 \times 18 = 16 \times 10 + 16 \times 8 = 160 + 128 = 288$$

$$6. 61 \times 12 - 11 \times 12 = (61 - 11) \times 12 = 50 \times 12 = 600$$

$$7. 37 \times 12 + 63 \times 12 = (37 + 63) \times 12 = 100 \times 12 = 1200$$

$$8. 73 \times 6 + 27 \times 6 = (73 + 27) \times 6 = 100 \times 6 = 600$$

$$9. 87 \times 12 - 37 \times 12 = (87 - 37) \times 12 = 50 \times 12 = 600$$

$$10. 63 \times 6 - 13 \times 6 = (63 - 13) \times 6 = 50 \times 6 = 300$$

$$11. 49 \times 7 + 51 \times 7 = (49 + 51) \times 7 = 100 \times 7 = 700$$

$$12. 87 \times 4 - 37 \times 4 = (87 - 37) \times 4 = 50 \times 4 = 200$$

Divide in steps (÷)

$$1. 515 \div 5 = 515 \times 2 \div 10 = 1030 \div 10 = 103$$

$$2. 455 \div 5 = 455 \times 2 \div 10 = 910 \div 10 = 91$$

$$3. 1675 \div 25 = 1675 \times 4 \div 100 = 6700 \div 100 = 67$$

$$4. 575 \div 25 = 575 \times 4 \div 100 = 2300 \div 100 = 23$$

$$5. 175 \div 25 = 175 \times 4 \div 100 = 700 \div 100 = 7$$

$$6. 428 \div 4 = 428 \div 2 \div 2 = 214 \div 2 = 107$$

$$7. 700 \div 25 \div 4 = 700 \div (25 \times 4) = 700 \div 100 = 7$$

$$8. 3000 \div 125 \div 8 = 3000 \div (125 \times 8) = 3000 \div 1000 = 3$$

$$9. 11000 \div 125 \div 8 = 11000 \div (125 \times 8) = 11000 \div 1000 = 11$$

$$10. 125 \div 5 = 125 \times 2 \div 10 = 250 \div 10 = 25$$

$$11. 388 \div 4 = 388 \div 2 \div 2 = 194 \div 2 = 97$$

$$12. 268 \div 4 = 268 \div 2 \div 2 = 134 \div 2 = 67$$

Mixed

$$1. 305 + 101 = 305 + 100 + 1 = 405 + 1 = 406$$

$$2. 11 \times 18 = 11 \times 10 + 11 \times 8 = 110 + 88 = 198$$

$$3. 475 \div 25 = 475 \times 4 \div 100 = 1900 \div 100 = 19$$

$$4. 25 \times 17 \times 4 = 25 \times 4 \times 17 = 100 \times 17 = 1700$$

$$5. 815 \div 5 = 815 \times 2 \div 10 = 1630 \div 10 = 163$$

$$6. 338 - 46 - 54 = 338 - (46 + 54) = 338 - 100 = 238$$

$$7. 669 - 299 = 669 - 300 + 1 = 369 + 1 = 370$$

$$8. 101 \times 23 = (100 + 1) \times 23 = 2300 + 23 = 2323$$

Power Pack · Mental math strategies — Answer key



Mixed

9. $61 \times 4 - 11 \times 4 = (61 - 11) \times 4 = 50 \times 4 = 200$

10. $68 + 20 + 32 = (68 + 32) + 20 = 100 + 20 = 120$

11. $628 \div 4 = 628 \div 2 \div 2 = 314 \div 2 = 157$

12. $29 \times 3 = (30 - 1) \times 3 = 90 - 3 = 87$