

AS: Number Sense

Rounding

Round the following numbers to the nearest ten, hundred and thousand:

Number	To the nearest ten	To the nearest hundred	To the nearest thousand
11	10	0	0
709	710	700	1,000
468	470	500	0
589	590	600	1,000
2,754	2,750	2,800	3,000
8,975	8,980	9,000	9,000
10,972	10,970	11,000	11,000
34,856	34,860	34,900	35,000
27,555	27,560	27,600	28,000

Division

Use number sense to determine whether each problem will have a whole number answer. Mark **True** or **False**, and solve the problems that are **True** for an extra challenge!

Dividing by 2, 3, 5, and 10

1. $54 \div 3 = \text{True, } 18$

2. $150 \div 10 = \text{True, } 15$

3. $224 \div 3 = \text{False}$

4. $192 \div 3 = \text{True, } 64$

5. $500 \div 5 = \text{True, } 100$

Dividing by 4, 6, 8, and 9

1. $196 \div 6 = \text{False}$

2. $3224 \div 8 = \text{True, } 403$

3. $350 \div 4 = \text{False}$

4. $288 \div 9 = \text{True, } 32$

5. $1000 \div 8 = \text{True, } 125$

Answer sheet — no color needed

6. $37 \div 2 = \text{False}$

6. $300 \div 6 = \text{True, 50}$

7. $68 \div 5 = \text{False}$

7. $268 \div 9 = \text{False}$

8. $390 \div 10 = \text{True, 39}$

8. $52 \div 4 = \text{True, 13}$

9. $361 \div 2 = \text{False}$

9. $156 \div 4 = \text{True, 39}$

10. $59 \div 3 = \text{False}$

10. $92 \div 6 = \text{False}$

11. $125 \div 5 = \text{True, 25}$

11. $729 \div 9 = \text{True, 81}$

12. $624 \div 2 = \text{True, 312}$

12. $2144 \div 8 = \text{True, 268}$

13. $145 \div 10 = \text{False}$

13. $634 \div 4 = \text{False}$

Multiplication

Use your number sense to determine whether each equation is *true* or *false*. If *false*, make the equation *true* by changing one number.

Multiplication

1. $64 * 3 = 194 \text{ False, 192}$

2. $19 * 5 = 95 \text{ True}$

3. $3 * 24 = 72 \text{ True}$

4. $40 * 64 = 2564 \text{ False, 2560}$

5. $1904 * 3 = 5713 \text{ False, 5712}$

6. $9001 * 89 = 801081 \text{ False, 801089}$

Exponents

1. $2^4 = 18 \text{ False, 16}$

2. $8^2 = 68 \text{ False, 64}$

3. $19^2 = 369 \text{ False, 361}$

4. $80^3 = 512000 \text{ True}$

5. $13^2 = 163 \text{ False, 169}$

6. $3^3 = 27 \text{ True}$

Answer sheet — no color needed

7. $90 * 3 = 273$ **False, 270**

7. $21^5 = 4084101$ **True**

8. $7 * 42 = 297$ **False, 294**

8. $20^7 = 1380000000$ **False, 1280000000**

9. $2 * 46 = 96$ **False, 92**

9. $91^3 = 753571$ **True**

10. $3 * 12 = 36$ **True**

10. $12^3 = 1723$ **False, 1728**

11. $5 * 67 = 337$ **False, 335**

11. $18^2 = 324$ **True**