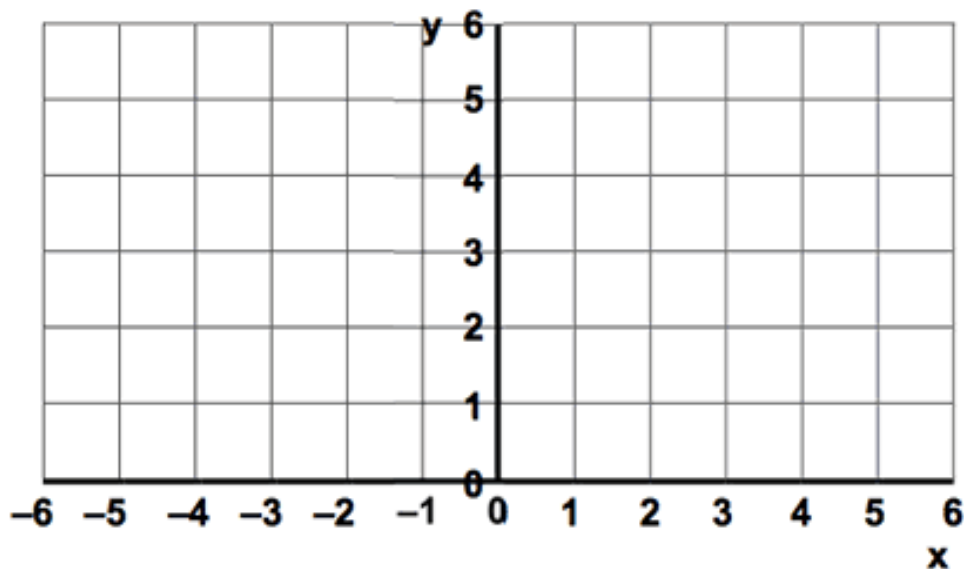


Noughts and Crosses on a Grid



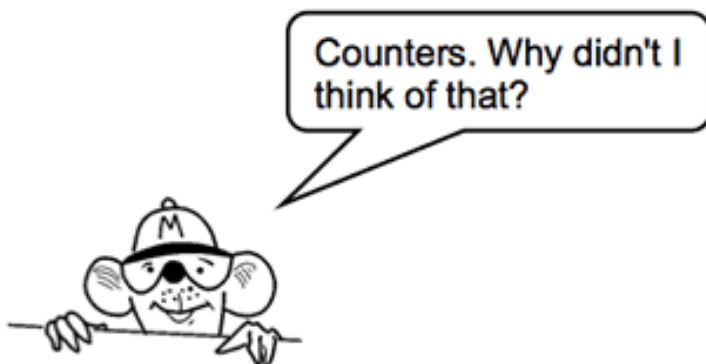
Here is a game you can play. You will need two people.

It is like noughts and crosses, but you need to get **four** noughts or crosses in a row instead of three.

When a person takes a turn, he/she must say the co-ordinates of the point where they are going to put their nought or cross before they do so. If they do not put it in the correct place, it is cancelled and the other person has a go!

First person with four in a row (vertically, horizontally or diagonally) is the winner.

To save printing too many of these sheets, you could use counters.



Remember BODMAS. Any calculations inside brackets must be completed before any other part of the sequence.

Without using a calculator work out the answers to the following sequences:

1. $100 - (20 \times 3) =$

2. $(35 - 15) + (27 - 7) =$

3. $15 + (6 \times 6) =$

4. $(4 + 5) \times (3 + 6) =$

5. $(5 + 5) \times (5 - 2) =$

6. $50 - (6 \times 6) =$

7. $(4 + 8) \times (3 - 2) =$

8. $(9 - 3) + (6 \times 6) =$

9. $(5 \times 7) - (2 \times 5) =$

10. $56 - (4 \times 7) =$

11. $78 - (10 \times 7) =$

12. $(7 \times 7) + (4 \times 8) =$

13. $(45 - 23) + (5 \times 8) =$

14. $38 - (5 \times 7) =$

15. $(100 - 45) + (7 \times 7) =$

16. $45 - (9 \times 4) =$

Not so tricky eh! I bet you got all these correct!



Just a couple of trickier problems.

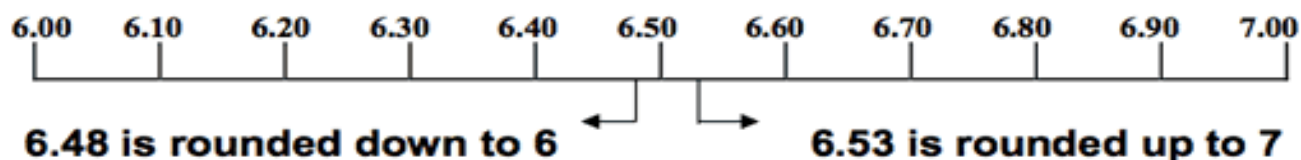
By putting in brackets in different places, how many different sums and answers can you find for these two sequences:

1. $4 + 4 \times 5 - 3 =$

2. $8 + 5 \times 1 + 3 - 6 =$

Rounding to the nearest whole one - revision

When rounding to the nearest whole one the important figure is the number of tenths. This is the first number after the decimal point. If the tenths are 5 or above round to the next whole number. If the tenths are below 5 round down - to the whole number as it already is.



There is no need to look at the hundredths, when rounding to the nearest whole one.

Round these amounts to the nearest whole one:

1. 6.71
2. 2.88
3. 3.38
4. 4.5
5. 7.05
6. 6.2

Remember to look at the tenths - don't worry about the hundredths!



Round these lengths to the nearest whole metre:

- | | | | |
|-------------|------------|------------|-------------|
| 7. 5.56 m | 8. 8.23 m | 9. 4.15 m | 10. 22.9 m |
| 11. 16.66 m | 12. 5.92 m | 13. 8.05 m | 14. 81.99 m |
| 15. 12.83 m | 16. 9.98 m | | |



More 8x table questions, all the way up to 12 x 8!!

1. $4 \times 8 =$

2. $6 \times 8 =$

3. $7 \times 8 =$

4. $3 \times 8 =$

5. $5 \times 8 =$

6. $2 \times 8 =$

7. $12 \times 8 =$

8. $8 \times 8 =$

9. $9 \times 8 =$

10. $0 \times 8 =$

11. $10 \times 8 =$

12. $11 \times 8 =$

13. $6 \times 8 =$

14. $1 \times 8 =$

15. $11 \times 8 =$

16. $5 \times 8 =$

Name

Date



MENTAL MATHS SHEET 5:6

1)	$540 \div 6$	
2)	Write down a multiple of 7 between 40 and 50.	
3)	28.6×100	
4)	The radius of a circle is 6.5 cm. What is the diameter?	
5)	In a spelling test, the scores are 15, 8, 11, 16, 10, 5 and 10. What is the range ?	
6)	What is this part of the circle called? <i>chord radius circumference sector</i>	
7)	Add up $\frac{2}{5}$, $\frac{3}{10}$ and $\frac{1}{2}$. Give your answer as a mixed number.	
8)	Which two numbers have a sum of 11 and a product of 28.	
9)	Which fraction is equivalent to $\frac{1}{3}$? $\frac{2}{8}$ $\frac{3}{6}$ $\frac{4}{10}$ $\frac{2}{7}$ $\frac{3}{9}$	
10)	$578 \div 10$	
11)	Write down 7:20pm as a 24 hour clock time.	
12)	Milly and Molly's ages add up to 19 years. Milly is 3 years older than Molly. How old are they?	
13)	(12 inches = 1 foot) Mandy is 67 inches tall. She is _____ ft _____ inches tall.	
14)	Frazer buys a 6 multi-pack bag of crisps for £2.40. Quadra buys 6 single packs of crisps for 45p each. How much more did Quadra spend on her crisps?	
15)	In a competition, Tyger throws the ball 3.58m and Frazer throws it 380cm. Who throws furthest? By how many much?	
16)	A third of a number is 21. What is the number?	



Free Math Sheets, Math Games and Math Help

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Name: _____ Date: _____

Ratio Problems Worksheet

Solve. If the problem asks for a ratio, give it in simplified form.

1 a. A herd of 52 horses has 12 white and some black horses. What is the ratio of white to black horses?

2 a. A pattern has 5 blue triangles to every 80 yellow triangles. What is the ratio of blue triangles to all triangles?

3 a. Noah drew 22 hearts and 76 circles. What is the ratio of circles to all shapes?

4 a. A pattern has 14 blue triangles to every 18 yellow triangles. What is the ratio of yellow triangles to blue triangles?

5 a. A pattern has 6 blue triangles to every 42 yellow triangles. What is the ratio of yellow triangles to blue triangles?

6 a. A group of preschoolers has 63 boys and 27 girls. What is the ratio of boys to all children?

Name : _____

Score : _____

Teacher : _____

Date : _____

Subtracting Fractional Inches

1) $6\frac{1}{4} - 4\frac{1}{2} =$

2) $9\frac{1}{2} - 1\frac{1}{4} =$

3) $11\frac{3}{4} - 7\frac{1}{4} =$

4) $7\frac{1}{4} - 5\frac{5}{16} =$

5) $7\frac{1}{2} - 5\frac{3}{8} =$

6) $7\frac{9}{16} - 3\frac{3}{4} =$

7) $5\frac{13}{16} - 2\frac{1}{8} =$

8) $4\frac{3}{8} - 2\frac{1}{2} =$

9) $7\frac{3}{16} - 5\frac{5}{8} =$

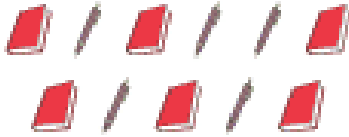
10) $11\frac{1}{2} - 5\frac{1}{2} =$

Ratio in Three Ways: Part to Part

Sheet 1

Write the ratio in three different ways.

1) Books to pens



Words : _____

Ratio : _____

Fraction : _____

2) Pumpkins to cabbages



Words : _____

Ratio : _____

Fraction : _____

3) Spiders to ladybugs



Words : _____

Ratio : _____

Fraction : _____

4) Apples to mangoes



Words : _____

Ratio : _____

Fraction : _____

5) Snow cones to chocolates



Words : _____

Ratio : _____

Fraction : _____

Name _____

**Practice
2-1**

Integers and Absolute Value

Name the opposite of each number.

1. 7 _____ 2. -8 _____ 3. 11 _____ 4. -47 _____

5. -15 _____ 6. 28 _____ 7. -98 _____ 8. 638 _____

Describe a situation that could be represented by each integer.

9. 4 _____ 10. -16 _____

11. -2 hours _____ 12. -\$3 _____

Use $>$, $<$, or $=$ to compare each set of numbers.

13. $-\$4 \bigcirc -\8 14. $-7 \bigcirc |-7|$ 15. $6 \bigcirc -6$ 16. $0 \bigcirc -8$

17. $-9 \bigcirc 3$ 18. $-2 \bigcirc -1$ 19. $15 \bigcirc |15|$ 20. $17 \bigcirc -35$

Find each absolute value.

21. $|-3|$ 22. $|8|$ 23. $|635|$ 24. $|-56|$

25. $|-845|$ 26. $|12 - 3|$ 27. $|35 - 7|$ 28. $|-3487|$

29. What integer is described by the following? The absolute



MULTIPLICATION – 2 DIGITS DECIMALS TENTHS

BY 1 DIGIT SHEET 2 ANSWERS

$$\begin{array}{r} 1) \quad 2.1 \\ \times \quad 5 \\ \hline 10.5 \end{array}$$

$$\begin{array}{r} 2) \quad 4.2 \\ \times \quad 7 \\ \hline 29.4 \end{array}$$

$$\begin{array}{r} 3) \quad 3.3 \\ \times \quad 6 \\ \hline 19.8 \end{array}$$

$$\begin{array}{r} 4) \quad 2.6 \\ \times \quad 8 \\ \hline 20.8 \end{array}$$

$$\begin{array}{r} 5) \quad 1.3 \\ \times \quad 7 \\ \hline 9.1 \end{array}$$

$$\begin{array}{r} 6) \quad 3.4 \\ \times \quad 4 \\ \hline 13.6 \end{array}$$

$$\begin{array}{r} 7) \quad 1.5 \\ \times \quad 9 \\ \hline 13.5 \end{array}$$

$$\begin{array}{r} 8) \quad 4.1 \\ \times \quad 6 \\ \hline 24.6 \end{array}$$

$$\begin{array}{r} 9) \quad 3.3 \\ \times \quad 8 \\ \hline 26.4 \end{array}$$

$$\begin{array}{r} 10) \quad 4.6 \\ \times \quad 9 \\ \hline 41.4 \end{array}$$

$$\begin{array}{r} 11) \quad 2.7 \\ \times \quad 7 \\ \hline 18.9 \end{array}$$

$$\begin{array}{r} 12) \quad 9.8 \\ \times \quad 3 \\ \hline 29.4 \end{array}$$

$$\begin{array}{r} 13) \quad 6.2 \\ \times \quad 5 \\ \hline 31.0 \end{array}$$

$$\begin{array}{r} 14) \quad 6.5 \\ \times \quad 8 \\ \hline 52.0 \end{array}$$

$$\begin{array}{r} 15) \quad 4.3 \\ \times \quad 9 \\ \hline 38.7 \end{array}$$

$$\begin{array}{r} 16) \quad 3.6 \\ \times \quad 7 \\ \hline 25.2 \end{array}$$

$$\begin{array}{r} 17) \quad 5.4 \\ \times \quad 6 \\ \hline 32.4 \end{array}$$

$$\begin{array}{r} 18) \quad 7.1 \\ \times \quad 8 \\ \hline 56.8 \end{array}$$

$$\begin{array}{r} 19) \quad 9.7 \\ \times \quad 4 \\ \hline 38.8 \end{array}$$

$$\begin{array}{r} 20) \quad 2.8 \\ \times \quad 9 \\ \hline 25.2 \end{array}$$

$$\begin{array}{r} 21) \quad 9.5 \\ \times \quad 3 \\ \hline 28.5 \end{array}$$

$$\begin{array}{r} 22) \quad 5.9 \\ \times \quad 7 \\ \hline 41.3 \end{array}$$

$$\begin{array}{r} 23) \quad 8.6 \\ \times \quad 9 \\ \hline 77.4 \end{array}$$

$$\begin{array}{r} 24) \quad 6.4 \\ \times \quad 8 \\ \hline 51.2 \end{array}$$



Name _____

Date _____



ADDITION – UP TO 12+12 SHEET 1



1) $3 + 2 =$ _____ 11) $2 + 5 =$ _____

2) $2 + 3 =$ _____ 12) $5 + 3 =$ _____

3) $1 + 4 =$ _____ 13) $7 + 2 =$ _____

4) $4 + 1 =$ _____ 14) $1 + 7 =$ _____

5) $5 + 2 =$ _____ 15) $5 + 2 =$ _____

6) $6 + 1 =$ _____ 16) $4 + 4 =$ _____

7) $0 + 3 =$ _____ 17) $2 + 6 =$ _____

8) $3 + 2 =$ _____ 18) $1 + 9 =$ _____

9) $5 + 1 =$ _____ 19) $3 + 5 =$ _____

10) $2 + 4 =$ _____ 20) $8 + 2 =$ _____

Key question: what happens when you change the order of the numbers:
 $1 + 6$ and $6 + 1$; $2 + 5$ and $5 + 2$?



Equivalent Ratio Tables

Name: _____ Score: _____

Complete the following ratio tables.

	2		
3	6	9	18

10		15	18
	80		72

		12	100
20	15	60	

			10
30	6	18	20

1	9		8
5		50	

7		20	10
	45	60	

5		20	12
15	30		

	40	9	
20	80		40

		20	10
90	48	60	

4			5
24	18	60	

	40	9	
50		90	300

6	20		10
	60	42	

5th Grade Math Worksheet

Name _____ Date _____

Mixed Fractions

Calculate the sum. Show your work.

1) $6\frac{4}{8} + 9\frac{1}{8} =$ _____ 2) $2\frac{2}{3} + 1\frac{2}{3} =$ _____

3) $5\frac{2}{8} + 3\frac{4}{8} =$ _____ 4) $3\frac{4}{8} + 2\frac{6}{8} =$ _____

5) $4\frac{3}{4} + 9\frac{1}{4} =$ _____ 6) $7\frac{2}{8} + 8\frac{4}{8} =$ _____

7) $5\frac{4}{3} + 3\frac{2}{3} =$ _____ 8) $4\frac{4}{3} + 7\frac{2}{3} =$ _____

9) $8\frac{1}{4} + 8\frac{2}{4} =$ _____ 10) $9\frac{2}{8} + 6\frac{2}{8} =$ _____

11) $9\frac{6}{8} + 1\frac{6}{8} =$ _____ 12) $4\frac{2}{8} + 6\frac{2}{8} =$ _____

13) $8\frac{2}{3} + 6\frac{2}{3} =$ _____ 14) $2\frac{2}{8} + 8\frac{4}{8} =$ _____

5th Grade Math Worksheet

Name _____ (Date _____)

Mixed Fractions

Calculate the sum. Show your work.

1) $6\frac{4}{8} + 9\frac{1}{8} =$ _____ 2) $2\frac{2}{3} + 1\frac{2}{3} =$ _____

3) $5\frac{2}{8} + 3\frac{4}{8} =$ _____ 4) $3\frac{4}{8} + 2\frac{6}{8} =$ _____

5) $4\frac{2}{4} + 9\frac{1}{4} =$ _____ 6) $7\frac{2}{8} + 8\frac{4}{8} =$ _____

7) $5\frac{4}{8} + 3\frac{2}{8} =$ _____ 8) $4\frac{4}{3} + 7\frac{2}{3} =$ _____

9) $8\frac{1}{4} + 8\frac{2}{4} =$ _____ 10) $9\frac{2}{8} + 6\frac{2}{8} =$ _____

11) $9\frac{6}{8} + 1\frac{6}{8} =$ _____ 12) $4\frac{2}{8} + 6\frac{2}{8} =$ _____

13) $8\frac{2}{3} + 6\frac{2}{3} =$ _____ 14) $2\frac{2}{8} + 8\frac{4}{8} =$ _____

Name _____

Date _____



MULTIPLICATION – 2 DIGITS DECIMALS TENTHS

BY 1 DIGIT SHEET 2 ANSWERS

$$\begin{array}{r} 1) \quad 2.1 \\ \times \quad 5 \\ \hline 10.5 \end{array}$$

$$\begin{array}{r} 2) \quad 4.2 \\ \times \quad 7 \\ \hline 29.4 \end{array}$$

$$\begin{array}{r} 3) \quad 3.3 \\ \times \quad 6 \\ \hline 19.8 \end{array}$$

$$\begin{array}{r} 4) \quad 2.6 \\ \times \quad 8 \\ \hline 20.8 \end{array}$$

$$\begin{array}{r} 5) \quad 1.3 \\ \times \quad 7 \\ \hline 9.1 \end{array}$$

$$\begin{array}{r} 6) \quad 3.4 \\ \times \quad 4 \\ \hline 13.6 \end{array}$$

$$\begin{array}{r} 7) \quad 1.5 \\ \times \quad 9 \\ \hline 13.5 \end{array}$$

$$\begin{array}{r} 8) \quad 4.1 \\ \times \quad 6 \\ \hline 24.6 \end{array}$$

$$\begin{array}{r} 9) \quad 3.3 \\ \times \quad 8 \\ \hline 26.4 \end{array}$$

$$\begin{array}{r} 10) \quad 4.4 \\ \times \quad 9 \\ \hline 41.4 \end{array}$$

$$\begin{array}{r} 11) \quad 2.7 \\ \times \quad 7 \\ \hline 18.9 \end{array}$$

$$\begin{array}{r} 12) \quad 9.8 \\ \times \quad 3 \\ \hline 29.4 \end{array}$$

$$\begin{array}{r} 13) \quad 6.2 \\ \times \quad 5 \\ \hline 31.0 \end{array}$$

$$\begin{array}{r} 14) \quad 6.5 \\ \times \quad 8 \\ \hline 52.0 \end{array}$$

$$\begin{array}{r} 15) \quad 4.3 \\ \times \quad 9 \\ \hline 38.7 \end{array}$$

$$\begin{array}{r} 16) \quad 3.6 \\ \times \quad 7 \\ \hline 25.2 \end{array}$$

$$\begin{array}{r} 17) \quad 5.4 \\ \times \quad 6 \\ \hline 32.4 \end{array}$$

$$\begin{array}{r} 18) \quad 7.1 \\ \times \quad 8 \\ \hline 56.8 \end{array}$$

$$\begin{array}{r} 19) \quad 9.7 \\ \times \quad 4 \\ \hline 38.8 \end{array}$$

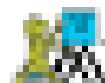
$$\begin{array}{r} 20) \quad 2.8 \\ \times \quad 9 \\ \hline 25.2 \end{array}$$

$$\begin{array}{r} 21) \quad 9.6 \\ \times \quad 3 \\ \hline 28.8 \end{array}$$

$$\begin{array}{r} 22) \quad 5.9 \\ \times \quad 7 \\ \hline 41.3 \end{array}$$

$$\begin{array}{r} 23) \quad 8.6 \\ \times \quad 9 \\ \hline 77.4 \end{array}$$

$$\begin{array}{r} 24) \quad 6.4 \\ \times \quad 8 \\ \hline 51.2 \end{array}$$



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Name _____

Date _____



ADDITION – UP TO 12+12 SHEET 1



1) $3 + 2 =$ _____

11) $2 + 5 =$ _____

2) $2 + 3 =$ _____

12) $5 + 3 =$ _____

3) $1 + 4 =$ _____

13) $7 + 2 =$ _____

4) $4 + 1 =$ _____

14) $1 + 7 =$ _____

5) $5 + 2 =$ _____

15) $5 + 2 =$ _____

6) $6 + 1 =$ _____

16) $4 + 4 =$ _____

7) $0 + 3 =$ _____

17) $2 + 6 =$ _____

8) $3 + 2 =$ _____

18) $1 + 9 =$ _____

9) $5 + 1 =$ _____

19) $3 + 5 =$ _____

10) $2 + 4 =$ _____

20) $8 + 2 =$ _____

Key question: what happens when you change the order of the numbers:
 $3 + 6$ and $6 + 3$; $3 + 5$ and $5 + 3$?



Equivalent Ratio Tables

Name: _____ Score: _____

Complete the following ratio tables.

	2		
3	6	9	18

10		15	18
	80		72

		12	100
20	15	60	

			10
30	6	18	20

1	9		8
5		50	

7		20	10
	45	60	

5		20	12
15	30		

	40	9	
20	80		40

		20	10
90	48	60	

4			5
24	18	60	

	40	9	
50		90	300

6	20		10
	60	42	

Name: _____ Date: _____

5.NBT.7

Addition & Subtraction of Decimals

Directions: Find the sum or difference.

$$\begin{array}{r} 32.7 \\ + 21.63 \\ \hline \end{array}$$

$$\begin{array}{r} 64.58 \\ + 2.3 \\ \hline \end{array}$$

$$\begin{array}{r} 125.6 \\ + 24.72 \\ \hline \end{array}$$

$$\begin{array}{r} 52.3 \\ + 43.73 \\ \hline \end{array}$$

$$\begin{array}{r} 44.38 \\ - 7.9 \\ \hline \end{array}$$

$$\begin{array}{r} 367.6 \\ - 64.18 \\ \hline \end{array}$$

$$\begin{array}{r} 65.8 \\ - 37.83 \\ \hline \end{array}$$

$$\begin{array}{r} 67.04 \\ - 5.8 \\ \hline \end{array}$$

$$\begin{array}{r} 207.3 \\ - 94.48 \\ \hline \end{array}$$

Name: _____ Date: _____

5.NBT.7

Addition & Subtraction of Decimals

Directions: Find the sum or difference.

$$\begin{array}{r} 32.7 \\ + 21.63 \\ \hline \end{array}$$

$$\begin{array}{r} 64.58 \\ + 2.3 \\ \hline \end{array}$$

$$\begin{array}{r} 125.6 \\ + 24.72 \\ \hline \end{array}$$

$$\begin{array}{r} 52.3 \\ + 43.73 \\ \hline \end{array}$$

$$\begin{array}{r} 44.38 \\ - 7.9 \\ \hline \end{array}$$

$$\begin{array}{r} 367.6 \\ - 64.18 \\ \hline \end{array}$$

$$\begin{array}{r} 65.8 \\ - 37.83 \\ \hline \end{array}$$

$$\begin{array}{r} 67.04 \\ - 5.8 \\ \hline \end{array}$$

$$\begin{array}{r} 207.3 \\ - 94.48 \\ \hline \end{array}$$



Equations with exponents

Grade 6 Exponents Worksheet

Solve the following expressions.

1. $5^2 + 3^3$

2. $99^1 + 10^2$

3. $2^6 + 4^2$

4. $10^4 + 0^{12}$

5. $7^2 - 20^1$

6. $2^8 - 11^2$

7. $3^2 \times 2^2$

8. $6^4 + 3^4$

9. $9^3 + 18$

10. $5^2 \times 1^{201}$

11. $0^7 - 1^{15}$

12. $1^{13} - 9^1$