

NAME: _____ Class: _____ Teacher: _____

1. Bonds**/9/**

1.1. $3 + 5 = \underline{\quad}$

1.2. $6 + 7 = \underline{\quad}$

1.3. $8 + 9 = \underline{\quad}$

1.4. $11 + 12 = \underline{\quad}$

1.5. $37 + 58 = \underline{\quad}$

1.6. $-17 + 12 = \underline{\quad}$

1.7. $37 - 44 = \underline{\quad}$

1.8. $-19 - 27 = \underline{\quad}$

1.9. $-38 + 73 = \underline{\quad}$

2. Tables**/9/**

2.1. $3 \times 6 = \underline{\quad}$

2.2. $4 \times 7 = \underline{\quad}$

2.3. $5 \times 8 = \underline{\quad}$

2.4. $7 \times 8 = \underline{\quad}$

2.5. $6 \times (-9) = \underline{\quad}$

2.6. $-11(-3) = \underline{\quad}$

2.7. $(-12) \times 8 = \underline{\quad}$

2.8. $11 \times 12 = \underline{\quad}$

2.9. $(-12) \times (-13) = \underline{\quad}$

3. Simplify and compare the values using the symbols (> < or =)**/10/**

3.1. $-8 \div 2$ $-7 + 3$

3.2. $6 + (-9)$ 1×4

3.3. $14 + 2$ -8×5

3.4. $\frac{1}{3}$ $\frac{1}{4}$

3.5. -8×2 $-7 + (-9)$

3.6. $4 \times (-9)$ $11 + 2$

3.7. $5 - 7$ $-10 \div 5$

3.8. $\frac{1}{6}$ $\frac{1}{8}$

3.9. $-19 + 8$ 2×3

3.10. $20 \div 2$ $14 - 4$

4. Rounding**/4/**

Given the number 37 846,396 round to the nearest

4.1. Thousand = _____

4.2. Hundred = _____

4.3. Tenth = _____

4.4. Hundredth = _____

5. Number Patterns**/4/**

Give the next two numbers in the following number sequences'-

5.1. 15; 23; 31; _____; _____

(2)

5.2. 7; -8; -23; _____; _____

(2)

6. **Fractions** - Give all answers as fractions or mixed numbers in their simplest form. **/14/**

6.1. $\frac{1}{2} + \frac{1}{3}$ (1)	6.2. $\frac{5}{6} - \frac{7}{8}$ (2)	6.3. $5\frac{1}{4} - 2\frac{5}{6}$ (3)
6.4. $12\frac{1}{2} \times 6\frac{2}{3}$ (3)	6.5. $4\frac{1}{4} \div 6\frac{3}{8}$ (3)	6.6. $\frac{12}{\frac{2}{3}}$ (2)

Question 7

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The following minimum and maximum temperatures were recorded at 4 international cities on the 6th January 2016. Answer the questions that follow.

Name of City	Minimum Temperature	Maximum Temperature
Cape Town	16°C	32°C
Moscow	-17°C	-2°C
La Paz	-13°C	15°C
Christchurch	8°C	22°C

- 7.1. Which city has the highest maximum temperature? _____ (1)
- 7.2. Which city has the lowest minimum temperature? _____ (1)
- 7.3. What is the range in temperature (difference between the maximum and minimum temperatures) from your answers in 7.1 and 7.2 above? _____ (2)
- 7.4. What is the temperature range in Moscow on Jan 6? _____ (2)
- 7.5. Which City has the greatest range in temperature? What is the range at this place – show all your working. _____ (2)

8. **Simplify**

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- 8.1. $a + a + a =$ _____ (1) 8.2. $a \times a \times a \times a =$ _____ (1)
- 8.3. $2 \mid a \mid b \mid 3 \mid b \mid 4 \mid b \mid a \mid a \mid a \mid b \mid b =$ _____ (3)
- 8.4. $2 \times a \times b \times 3 \times b \times 4 \times b \times a \times a \times a \times b \times b =$ _____ (3)
- 8.5. $4 \times a \times b + 3 \times b \times a + 5 \times a \times b =$ _____ (2)
- 8.6. $2(3a + 4) - 3(a + 2) =$ _____
 _____ (3)

9. **Exponents**

/9/

- 9.1. What is the square of 9? _____ (1)
- 9.2. What is the square root of 9? _____ (1)
- 9.3. Any number to the power of zero equals _____ . (1)
- 9.4. Complete the first two rules of exponents.
 Multiplying powers with the same base we _____ the exponents. (1)
 Dividing powers with the same base we _____ the exponents. (1)
- 9.5. Simplify - give all answers in exponential form.
- 9.5.1. $m^3 \times m^4 =$ _____ (1) 9.5.2. $\frac{m^9}{m^4} =$ _____ (1)
- 9.6. Evaluate $\sqrt{64} - 5^2 - \sqrt[3]{-27} =$ _____ (2)

TOTAL 80