Year 8 Integers, Powers and Roots – Developing

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Year 8 · Maths · Integers, Powers and Roots · Level 2 Developing · 10 questions

Name _____ **Date** _____

A. Use powers and roots

1. Here are five numbers: 0.4, 7, −10, 0, 12. Which of them are integers? (All of them are rational numbers.)

Answer _____

2. Here are five numbers: 0, 0.4, −10, −4, 0.75. Which of them are natural numbers? (All of them are rational numbers.)

Answer _____

3. Find n: $5^{3} \times 5^{n} = 5^{12}$

Answer _____

4. Find n: $2^{3} \times 2^{n} = 2^{11}$

Answer _____

5. At midnight the temperature is −5 °C. It falls by 2 °C every hour for 3 hours. What is the temperature then?

Answer _____

6. A square vegetable plot has an area of 256 m². What length of fencing is needed to go all the way round it?

Answer _____

7. A freezer is at −16 °C. A science freezer is 2 times as cold (in °C). What is its temperature? How many degrees colder is it?

Answer _____

8. Work out $\sqrt{(9 \times 16)} - 2^3$.

Answer _____

9. Write $4^4 \times 4^2$ as a single power of 4.

Answer _____

10. Lina says $(-8)^2 = -64$. Spot the mistake and give the correct answer.

Answer _____