

Year 5 Prime Numbers, Factors, Squares and Cubes: check-up and SATs-style questions: worksheet

Year 5 - Prime Numbers, Factors, Squares and Cubes - Test yourself

Name: _____

Date: _____

Score: _____

20 questions. Write your answers in the spaces. Answers and step-by-step help are free at websink.site/ks2-sats/maths/year-5/ch03-factors-primes-squares-cubes/check-up-and-sats-style-questions/

Exercise 3Z Check-up (non-calculator)

Non-calculator

- 1 Write the first five multiples of 9.

Answer: _____

- 2 Find the lowest common multiple (LCM) of 6 and 10.

Answer: _____

- 3 Is 3,456 divisible by 8? Write Yes or No.

Answer: _____

- 4 Write all the factors of 40.

Answer: _____

- 5 Find the highest common factor (HCF) of 24 and 40.

Answer: _____

- 6 Is 83 a prime number? Write Prime or Not prime.

Answer: _____

- 7 Write 56 as a product of prime factors.

Answer: _____

- 8 Work out $8^2 + 3^3$.

Answer: _____

- 9 Find the missing number. $\boxed{?}^3 = 216$

Answer: _____

- 10 I am a multiple of 8. I am a multiple of 3. I am between 60 and 80. What number am I?

Answer: _____

Exercise 3X SATs-style questions

Non-calculator

- 1 Which number is a multiple of both 4 and 6? Tick one box. A 16 B 18 C 24 D 28

[1 mark]

Answer: _____

- 2 Circle the prime number. 21 27 29 33

[1 mark]

Answer: _____

- 3 What is the value of 6^3 ?

[1 mark]

Answer: _____

- 4** Which number is divisible by 9? Tick one box. A 4,321 B 5,076 C 6,125 D 7,890 [1 mark]

Answer:

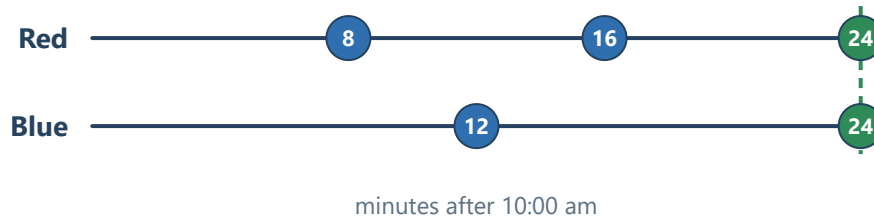
- 5** Jack says, "77 is a prime number." Show that Jack is wrong. [2 marks]

Answer:

- 6** Write all the factors of 28. [2 marks]

Answer:

- 7** The red bus leaves the station every 8 minutes. The blue bus leaves every 12 minutes. Both buses leave at 10:00 am. At what time do they next leave together? Show your working. [2 marks]



Answer:

- 8** Write 72 as a product of prime factors. Draw a factor tree to help you. [2 marks]

Answer:

- 9** Tara has 24 red beads and 36 blue beads. She makes necklaces that are all the same. She uses every bead.

- (a) What is the greatest number of necklaces she can make? (2 marks) [3 marks]

Answer:

- (b) How many red beads and how many blue beads are on each necklace? (1 mark)

Answer:

- 10** Dev thinks of a number. It is a square number. It is also a cube number. It is more than 1 and less than 100. What is Dev's number? Show how you know. [3 marks]

Answer: