Name: _____

ASM Tuition Academy

FAQCTORS, MULTIPLES AND PRIMES

Instructions:

- Use **black** ink or ball-point pen.
- Answer all the questions.
- Answer the questions in the spaces provided
  - there may be more space than you need.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all you're working out.**

Information:

- The marks for each question are shown in brackets
  - use this as a guide as to how much time to spend on each question.

Advice:

- Read each question carefully before you start to answer it.
- Keep an eye on time.
- Try to answer every question.
- Check your answers if you have time at the end.

Q1. Write down a multiple of 8 that is between 20 and 30.

(Total for Question 1 is 1 mark)

Q2. Write down the first even multiple of 7.

(Total for Question 2 is 1 mark)

Q3. Write down a multiple of 10 that is between 30 and 50.

(Total for Question 3 is 1 mark)

Q4. Write down a prime number between 30 and 40.

(Total for Question 4 is 1 mark)

Q5. Write down two factors of 24.

(Total for Question 5 is 2 marks)

Q6. Write down all the prime numbers between 30 and 40.

(Total for Question 6 is 2 marks)

Q7. Write down two multiples of 15.

(Total for Question 7 is 2 marks)

Q8. Here is a list of numbers:
14, 17, 21, 27, 33, 35, 42 (a)
Write down an even number.
(b) Write down a multiple of 7.

(Total for Question 8 is 2 marks)

Q9. Write down two multiples of 12.

(Total for Question 9 is 2 marks)

Q10. Write down all the factors of 15.

(Total for Question 10 is 2 marks)

Q11. Write down all the factors of 21.

(Total for Question 11 is 2 marks)

Q12. Here is a list of numbers: 40,
41, 42, 43, 44, 45, 46, 47, 48, 49
(a) Write down a square number.
(b) Write down a multiple of 8.
(c) Write down all the prime numbers on the list.

(Total for Question 12 is 3 marks)

Q13. Here is a list of numbers:

3, 10, 12, 17, 21, 29, 36 (a)
Write down a factor of 12.
(b) Write down a multiple of 6.
(c) Write down all the prime numbers on the list.

(Total for Question 13 is 3 marks)

Q14. Write down all the prime numbers between 20 and 30.

(Total for Question 14 is 2 marks)

Q15. Write down two multiples of 25.

(Total for Question 15 is 2 marks)

Q16. Write down all the factors of 18.

(Total for Question 16 is 2 marks)

Q17. Huma says: "33 is a prime number." Is
Huma correct? Give a reason for your answer.

(Total for Question 17 is 1 mark)

Q18. Here is a list of numbers:

2,   7, 8, 15, 23, 25, 35

(a) Write down a factor of 14.

(b) Write down a multiple of 5.

(c) Write down all the prime numbers on the list.

(Total for Question 18 is 3 marks)

Q19. William is thinking of a number.

He says: "My number is prime, and it is a factor of 50."

Write down the two possible numbers William can be thinking of.

(Total for Question 19 is 2 marks)

Q20. Write down two prime numbers that have a sum of 24.

(Total for Question 20 is 2 marks)

Q21. Write down two prime numbers that have a sum of 20.

(Total for Question 21 is 2 marks)

Q22. Here is a list of numbers:

6, 10, 13, 19, 24, 36, 45

(a) Write down a factor of 18.

(b) Write down a multiple of 9.

(c) Write down all the prime numbers on the list.

(Total for Question 22 is 3 marks)

Q23 Harry is thinking of a number.
He says: "My number is even. It is a factor of 42 and a multiple of 7." Write
down the two possible numbers Harry can be thinking of.

(Total for Question 23 is 3 marks)

Q24 John is thinking of a number.
He says: "My number is odd. It is a factor of 30 and a multiple of 5." Write
down the two possible numbers John can be thinking of.

(Total for Question 24 is 3 marks)