

Multiples - Worksheet

Skill

Group A - Listing multiples

Write down the first six multiples of the following numbers:

- | | | |
|--------|--------|---------|
| 1) 7 | 2) 3 | 3) 4 |
| 4) 12 | 5) 9 | 6) 8 |
| 7) 11 | 8) 10 | 9) 5 |
| 10) 35 | 11) 20 | 12) 200 |
-

Group B - Identifying specific multiples

Identify the following multiples:

- | | | |
|---------------------------------------|--|--|
| 1) The 2 nd multiple of 8 | 2) The 3 rd multiple of 7 | 3) The 5 th multiple of 9 |
| 4) The 6 th multiple of 10 | 5) The 7 th multiple of 20 | 6) The 8 th multiple of 100 |
| 7) The 9 th multiple of 4 | 8) The 10 th multiple of 3 | 9) The 2 nd multiple of 4 |
| 10) The 3 rd multiple of 6 | 11) The 4 th multiple of 50 | 12) The 8 th multiple of 20 |
-

Group C - Finding common multiples

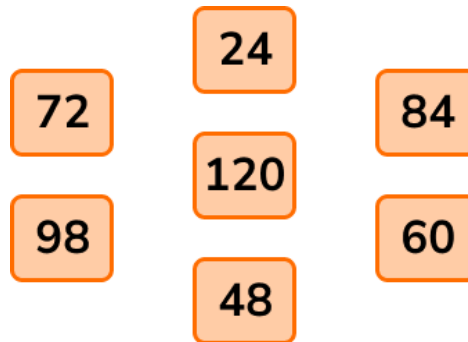
List the first ten multiples of each number. Write down any numbers listed that are multiples of both numbers:

- | | | |
|---------------|---------------|--------------|
| 1) 3 and 4 | 2) 3 and 9 | 3) 2 and 5 |
| 4) 8 and 4 | 5) 6 and 9 | 6) 10 and 5 |
| 7) 11 and 6 | 8) 7 and 13 | 9) 8 and 12 |
| 10) 25 and 40 | 11) 12 and 36 | 12) 20 and 4 |

Multiples - Worksheet

Applied

- 1) Which is the odd one out.



Give a reason for your answer.

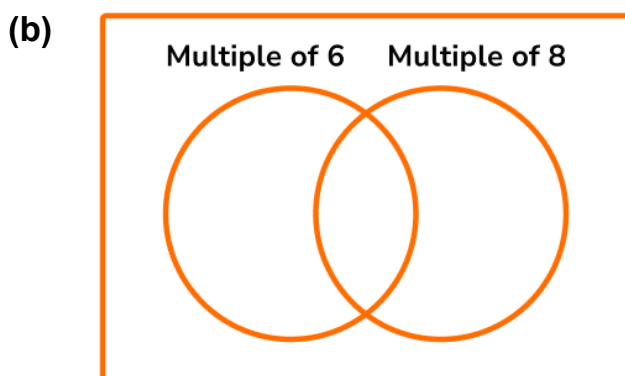
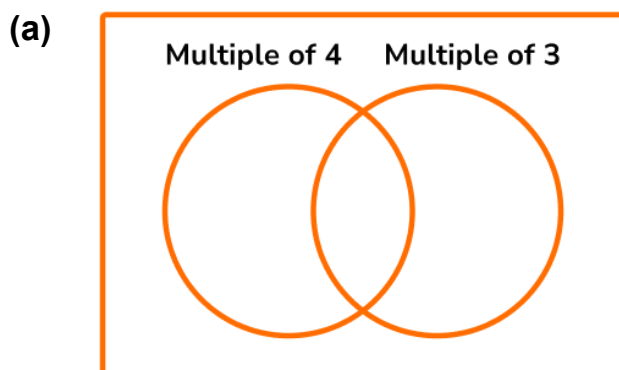
- 2) Below is a section of a hundred square.

19	20	21	22
29	30	31	32
39	40	41	42

- (a) Why are some numbers shaded?
- (b) Why do some numbers have circles around them?

Multiples - Worksheet

- 3)** Complete the Venn diagrams below for the numbers 1 to 20.



- 4)** **(a)** Find a number that is a multiple of 2, 3, 4, 5 and 6.
(b) Find the first even number that is a multiple of 5 and 7.

- 5)** Lucas is thinking of a number.

'My number is a multiple of 5 and 10. It is even and between 35 and 55'

- (a)** What could his number be?
(b) Is there only one answer?

Multiples - Exam Questions

- 1) From the list of numbers:

7, 9, 12, 21, 23, 30, 36, 45

- (a) Write down the multiples of 7.

.....
(2)

- (b) Write down the multiples of 5.

.....
(2)

- (c) Write down the multiples of 12.

.....
(2)
(6 marks)

-
- 2) (a) Write down two multiples of 4.

.....
(1)

- (b) Write down two multiples of 9.

.....
(1)

- (c) Write down a number which is a multiple of both 4 and 9.

.....
(1)
(3 marks)

-
- 3) (a) Write down three different multiples of 4 that add up to 40.

.....
(2)

- (b) Write down an even number that is a multiple of 7.

.....
(1)
(3 marks)

Multiples - Exam Questions

- 4) (a) Which of these numbers is one more than a multiple of 5?

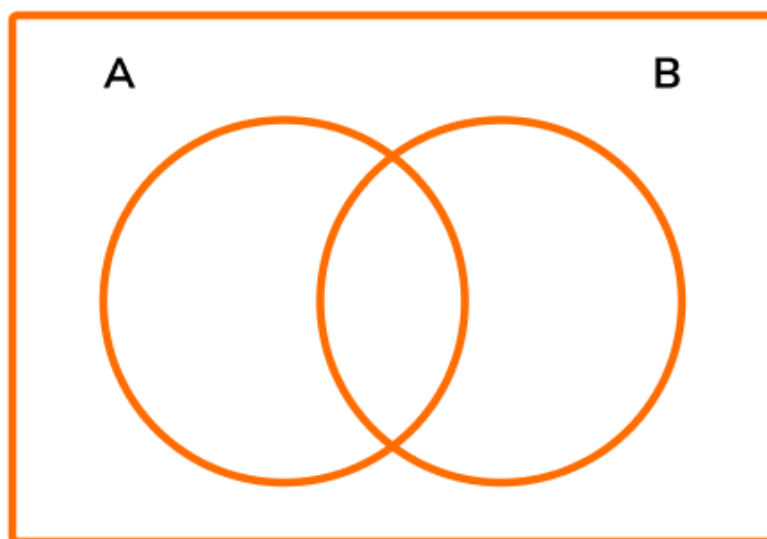
15, 19, 26, 30

.....
(1)

- (b) Complete the following Venn diagram for the numbers 20 to 40.

A = multiples of 2

B = multiples of 7



(4)
(5 marks)

Multiples - Answers

	Question	Answer
	Skill Questions	
Group A	Write down the first six multiples of the following numbers: 1) 7 2) 3 3) 4 4) 12 5) 9 6) 8 7) 11 8) 10 9) 5 10) 35 11) 20 12) 200	1) 7, 14, 21, 28, 35, 42 2) 3, 6, 9, 12, 15, 18 3) 4, 8, 12, 16, 20, 24 4) 12, 24, 36, 48, 60, 72 5) 9, 18, 27, 36, 45, 54 6) 8, 16, 24, 32, 40, 48 7) 11, 22, 33, 44, 55, 66 8) 10, 20, 30, 40, 50, 60 9) 5, 10, 15, 20, 25, 30 10) 35, 70, 105, 140, 175, 210 11) 20, 40, 60, 80, 100, 120 12) 200, 400, 600, 800, 1000, 1200
Group B	Identify the following multiples: 1) The 2nd multiple of 8 2) The 3rd multiple of 7 3) The 5th multiple of 9 4) The 6th multiple of 10 5) The 7th multiple of 20 6) The 8th multiple of 100 7) The 9th multiple of 4 8) The 10th multiple of 3 9) The 2nd multiple of 4 10) The 3rd multiple of 6 11) The 4th multiple of 50 12) The 8th multiple of 20	1) 16 2) 21 3) 45 4) 60 5) 140 6) 800 7) 36 8) 30 9) 8 10) 18 11) 200 12) 160

Multiples - Answers

Group C	List the first ten multiples of each number. Write down any numbers listed that are multiples of both numbers: 1) 3 and 4 2) 3 and 9 3) 2 and 5 4) 8 and 4 5) 6 and 9 6) 10 and 5 7) 11 and 6 8) 7 and 13 9) 8 and 12	1) 3, 6, 9, 12, 15, 18, 21, 24, 27, 30 4, 8, 12, 16, 20, 24, 28, 32, 36, 40 Common multiples - 12 & 24 2) 3, 6, 9, 12, 15, 18, 21, 24, 27, 30 9, 18, 27, 36, 45, 54, 63, 72, 81, 100 Common multiples - 9, 18 & 27 3) 2, 4, 6, 8, 10, 12, 14, 16, 18, 20 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 Common multiples - 10 & 20 4) 8, 16, 24, 32, 40, 48, 56, 64, 72, 80 4, 8, 12, 16, 20, 24, 28, 32, 36, 40 Common multiples - 8, 16, 24, 32 & 40 5) 6, 12, 18, 24, 30, 36, 42, 48, 54, 60 9, 18, 27, 36, 45, 54, 63, 72, 81, 100 Common multiples - 18, 36 & 54 6) 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 Common multiples - 10, 20, 30, 40 & 50 7) 11, 22, 33, 44, 55, 66, 77, 88, 99, 110 6, 12, 18, 24, 30, 36, 42, 48, 54, 60 Common multiples - none 8) 7, 14, 21, 28, 35, 42, 49, 56, 63, 70 13, 26, 39, 52, 65, 78, 91, 104, 117, 130 Common multiples - none 9) 8, 16, 24, 32, 40, 48, 56, 64, 72, 80 12, 24, 36, 48, 60, 72, 84, 96, 108, 120 Common multiples - 24, 48 & 72
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Multiples - Answers

Group C contd	10) 25 and 40	10) 25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 40, 80, 120, 160, 200, 240, 280, 320, 360, 400 Common multiples - 200
	11) 12 and 36	11) 12, 24, 36, 48, 60, 72, 84, 96, 108 120, 36, 72, 108, 144, 180, 216, 252, 288, 326, 360 Common multiples - 36, 72 & 108
	12) 20 and 4	12) 20, 40, 60, 80, 100, 120, 140, 160, 180, 200 4, 8, 12, 16, 20, 24, 28, 32, 36, 40 Common multiples - 20 & 40

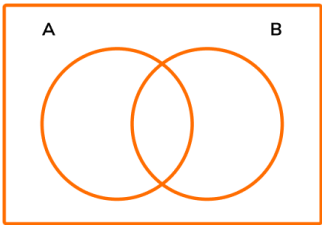
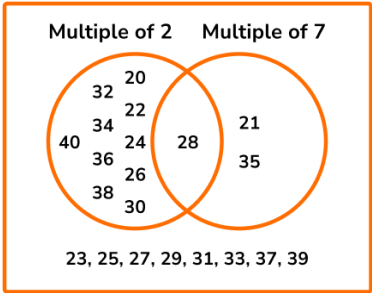
Multiples - Answers

	Question	Answer												
	Applied Questions													
1)	Which is the odd one out. 72 24 84 120 98 60 48 Give a reason for your answer.	98 is the odd one out because it is not a multiple of 12												
2)	Below is a section of a hundred square. <table><tr><td>19</td><td>20</td><td>21</td><td>22</td></tr><tr><td>29</td><td>30</td><td>31</td><td>32</td></tr><tr><td>39</td><td>40</td><td>41</td><td>42</td></tr></table> a) Why are some numbers shaded? b) Why do some numbers have circles around them?	19	20	21	22	29	30	31	32	39	40	41	42	a) Multiples of 3. b) Multiples of 5 (or 10).
19	20	21	22											
29	30	31	32											
39	40	41	42											
3)	a) Complete the Venn diagrams below for the numbers 1 to 20. Multiple of 4Multiple of 3 b) Multiple of 6Multiple of 8	a) Multiple of 4Multiple of 3 416 820 12 36 915 18 1, 2, 5, 7, 10, 11, 13, 14, 17, 19 b) Multiple of 6Multiple of 8 6 12 18 8 16 1, 2, 3, 4, 5, 7, 9, 10, 11, 13, 14, 15, 17, 19, 20												

Multiples - Answers

4)	a) Find a number that is a multiple of 2, 3, 4, 5 and 6. b) Find the first even number that is a multiple of 5 and 7.	60 (or 120, 180, 240 and so on) 70
5)	Lucas is thinking of a number. 'My number is a multiple of 5 and 10. It is even and between 35 and 55' a) What could his number be? b) Is there only one answer?	40 or 50 No. There are two multiples of 5 and 10 between 35 and 55. 40 and 50.

Multiples - Mark Scheme

	Question	Answer	
	Exam Questions		
1) (a)	From the list of numbers 7, 9, 12, 21, 23, 30, 36, 45 Write down the multiples of 7.	(a) 7 and 21	(1)
(b)	Write down the multiples of 5.	(b) 30 and 45	(1)
(c)	Write down the multiples of 12.	(c) 12 and 36	(1)
2) (a)	Write down two multiples of 4.	(a) Any two multiples of 4 e.g. 4, 8, 12, 16	(1)
(b)	Write down two multiples of 9.	(b) Any two multiples of 9 e.g. 9, 18, 27,	(1)
(c)	Write down a number which is a multiple of both 4 and 9.	(c) Any common multiple of 4 and 9 e.g. 36, 72	(1)
3) (a)	Write down three different multiples of 4 that add up to 40.	(a) Any 3 multiples of 4 e.g. 4, 8, 12, 16, 20, 24 Any 3 multiples of 4 that add up to 40, E.g. 8, 12, 20 or 4, 16, 20	(1) (1)
(b)	Write down an even number that is a multiple of 7.	(b) Any multiple of 14 e.g. 14, 28, 42	(1)
4) (a)	Which of these numbers is one more than a multiple of 5? 15, 19, 26, 30	(a) 26	(1)
(b)	Complete the following Venn diagram for the numbers 20 to 40. A = multiples of 2 B = multiples of 7 	 28 in the middle 21 and 35 in multiples of 7 only All other even numbers in multiples of 2 only All remaining numbers on the outside of the diagram	(1) (1) (1) (1)

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