## **PROPERTIES OF INTEGERS**

	How many marbles remain undistributed?	
	marbles	
A.1 CALCULATING THE DIVISION WITH REMAINDERS	<b>Ex 10:</b> A coach organizes 37 soccer players into teams such that each team contains 5 players. The remaining players are	
<b>Ex 1:</b> Write the division with remainder of 21 by 5:	substitutes. How many full teams can be formed?	
$21 = 5 \times \boxed{\qquad} + \boxed{\qquad}$	teams	
<b>Ex 2:</b> Write the division with remainder of 37 by 3:	How many players are substitutes?	
$37 = 3 \times$ +	players	
<b>Ex 3:</b> Write the division with remainder of 63 by 4:	B DIVISIBILITY	
$63 = 4 \times \boxed{\qquad} + \boxed{\qquad}$		
<b>Ex 4:</b> Write the division with remainder of 154 by 6:	B.I DETERMINING DIVISIBILITY	
$154 = 6 \times \boxed{\qquad} + \boxed{\qquad}$	MCQ 11: Is 10 divisible by 5? □ Yes	
<b>Ex 5:</b> Write the division with remainder of 632 by 5:	□ No	
$632 = 5 \times$ +	<b>MCQ 12:</b> Is 82 divisible by 4?	
	$\Box$ Yes	
A.2 SOLVING REAL-WORLD PROBLEMS		
<b>Ex 6:</b> A farmer shares 243 eggs into boxes such that each box contains 6 eggs.	<b>MCQ 13:</b> Is 72 divisible by 5?	
How many boxes are needed?	$\Box$ Yes	
boxes		
How many eggs remain without being placed in a box?	<b>MCQ 14:</b> Is 234 divisible by 3?	
eggs	$\Box$ Yes	
<b>Ex 7:</b> A farmer's inheritance of 123 sheep is to be divided equally		
among 4 children. How many sheep does each child receive?	B.2 DETERMINING MULTIPLICITY	
sheen	MCQ 15: Is 73 a multiple of 9?	
How many sheep remain undistributed?	$\Box$ Yes	
sheep	$\Box$ No	
sheep	<b>MCQ 16:</b> Is 77 a multiple of 11?	
<b>Ex 8:</b> A gardener arranges 200 roses into bouquets such that each bouquet contains 12 roses.	□ Yes	
How many bouquets are needed?	$\Box$ No	
bouquets	<b>MCQ 17:</b> Is 50 a multiple of 4?	
How many roses remain without being placed in a bouquet?	□ Yes	
roses	□ No	
Ex 9: A child entering middle school decides to give his 300	<b>MCQ 18:</b> Is 100 a multiple of 12?	
marbles to his 7 cousins. How many marbles does each cousin receive?	$\Box$ Yes	
marbles	□ No	

B.3 DETERMINING FACTORS	□ No
<b>MCQ 19:</b> Is 10 a factor of 60?	<b>MCQ 27:</b> Is 462 divisible by 2?
□ Yes	□ Yes
□ No	□ No
MCQ 20: Which of the following numbers are factors of 64?	<b>MCQ 28:</b> Is 799 divisible by 2?
Choose all answers that apply: $\Box 2$	□ Yes
	∐ No
	<b>MCQ 29:</b> Is 45 divisible by 5?
$\Box$ 32	$\Box$ Yes
MCO 21. Which equation shows that 5 is a factor of 45?	□ No
Choose 1 answer:	<b>MCQ 30:</b> Is 80 divisible by 5?
$\Box 45 = 5 + 40$	$\Box$ Yes
$\Box 45 = 50 - 5$	□ No
$\Box 45 = 225 \div 5$	<b>MCQ 31:</b> Is 126 divisible by 5?
$\Box 45 = 5 \times 9$	$\Box$ Yes
MCQ 22: List all the factors of 6.	□ No
Choose 1 answer: $\Box$ 1 2 2 4 6	<b>MCQ 32:</b> Is 301 divisible by 5?
$\Box$ 1, 2, 3, 4, 0 $\Box$ 1, 2, 3, 6	$\Box$ Yes
$\Box$ 1, 2, 3, 6	□ No
	C.2 DETERMINING DIVISIBILITY FOR 3 AND 9
Choose 1 answer:	<b>MCQ 33:</b> Is 162 divisible by 3?
$\Box$ 1, 2, 3, 4, 6, 8, 12, 24	□ Yes
$\Box$ 1, 2, 3, 4, 6, 8	□ No
$\Box$ 1, 2, 3, 4, 5, 6, 8, 12, 24	<b>MCQ 34:</b> Is 305 divisible by 3?
MCQ 24: List all the factors of 40.	□ Yes
Choose 1 answer:	□ No
$\Box 1, 2, 4, 5, 8, 10, 40$	<b>MCO 35:</b> Is 888 divisible by 3?
$\Box 1, 2, 4, 5, 8, 10, 12, 20, 40$	
$\Box$ 1, 2, 4, 5, 8, 10, 20, 40	
C DIVISIBILITY CRITERIA	<b>MCO 36:</b> Is 504 divisible by 3?
	$\square$ Yes
MCO 25. Is 08 divisible be 22	□ No
INIC Q 20: IS 98 divisible by 2: $\Box$ Ves	<b>MCO 37.</b> Is 126 divisible by $0^{\circ}$
$\Box$ No	Vice of is 120 divisible by 9:
	□ No
<b>MCQ 26:</b> Is 315 divisible by 2?	

$\Box$ Yes	
□ No	
MCQ 39:	Is 369 divisible by 9?
$\Box$ Yes	
□ No	
MCQ 40:	Is 441 divisible by 9?
□ Yes	
□ No	
C.3 DETERMINING DIVISIBILITY FOR 4	
MCQ 41:	Is 188 divisible by 4?
$\Box$ Yes	
□ No	
MCQ 42:	Is 373 divisible by 4?
$\Box$ Yes	
□ No	
MCQ 43:	Is 412 divisible by 4?
$\Box$ Yes	
□ No	
MCQ 44:	Is 256 divisible by 4?
$\Box$ Yes	
□ No	
MCQ 45:	Is 179 divisible by 4?
$\Box$ Yes	
□ No	
MCQ 46:	Is 520 divisible by 4?
$\Box$ Yes	
□ No	
MCQ 47:	Is 567 divisible by 4?
$\Box$ Yes	
$\Box$ No	