| | |
|---|---|
| **SESSION** | **: 3** |
| **CLASS** | **: IV** |
| **SUBJECT** | **: MATHEMATICS** |
| **CHAPTER NUMBER** | **: 9** |
| **CHAPTER NAME** | **: TESTS OF DIVISIBILITY** |
| **SUBTOPIC** | **: TESTS OF DIVISIBILITY, EX-9 B Q.NO. 1 TO 8** |

# LEARNING OBJECTIVE

- **Enable the students to understand how to use the divisibility rules of different numbers.**

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**1)** Which of the following numbers are divisible by 2? Tick (✓) them.

**Answer:**

**(a)** 36 ✓. **(b)** 45 ✗. **(c)** 241 ✗. **(d)** 918 ✓.

**(e)** 2140 ✓. **(f)** 4309 ✗. **(g)** 6100 ✓. **(h)** 25,268 ✓.

**(i)** 18,025 ✗. **(j)** 36,040 ✓. **(k)** 91,273 ✗. **(l)** 42,406 ✓.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**2)** What is the least number that must be added to the following numbers to get the numbers divisible by 2?.

**Answer:** **(a)** 347 **1**.

As we know, A number is divisible by **2**
if its last digit is an **even number** or **zero**

So, if we add **1** to **347** then we will get the number **348** which is a **even** number.

**347 + 1 = 348**

And it is divisible by **2**.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**2)** What is the least number that must be added to the following numbers to get the numbers divisible by 2?.

**Answer:** **(b)** 859 **1**.

As we know, A number is divisible by **2**
if its last digit is an **even number** or **zero**

So, if we add **1** to **859** then we will get the number **860** which have **zero** in last digit.

**859 + 1 = 860**

And it is divisible by **2**.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**2)** What is the least number that must be added to the following numbers to get the numbers divisible by 2?.

**Answer:** **(c)** 1105 **1**.

As we know, A number is divisible by **2**
if its last digit is an **even number** or **zero**

So, if we add **1** to **1105** then we will get the number **1106** which is a **even** number.

**1105 + 1 = 1106**

And it is divisible by **2**.

# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**2)** What is the least number that must be added to the following numbers to get the numbers divisible by 2?.

**Answer:** **(d) 2841** **1**.

As we know, A number is divisible by **2**
if its last digit is an **even number** or **zero**

So, if we add **1** to **2841** then we will get the number **2842** which is a **even** number.

**2841 + 1 = 2842**

And it is divisible by **2**.

# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**2)** What is the least number that must be added to the following numbers to get the numbers divisible by 2?.

**Answer:** **(e) 7043** **1**.

As we know, A number is divisible by **2**
if its last digit is an **even number** or **zero**

So, if we add **1** to **7043** then we will get the number **7044** which is a **even** number.

**7043 + 1 = 7044**

And it is divisible by **2**.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**3)** What is the least number that must be subtracted from the following numbers to get the numbers divisible by 2?.

**Answer:** **(a)** 99 **1**.

As we know, A number is divisible by **2**
if its last digit is an **even number** or **zero**

So, if we subtract **1** from **99** then we will get the number **98** which is a **even** number.

**99 – 1 = 98**

And it is divisible by **2**.

# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**3)** What is the least number that must be subtracted from the following numbers to get the numbers divisible by 2?.

**Answer:** **(b)** 433 **1**.

As we know, A number is divisible by **2**
if its last digit is an **even number** or **zero**

So, if we subtract **1** from **433** then we will get the number **432** which is a **even** number.

**433 – 1 = 432**

And it is divisible by **2**.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**3)** What is the least number that must be subtracted from the following numbers to get the numbers divisible by 2?.

**Answer:** **(c)** 963 **1**.

As we know, A number is divisible by **2**
if its last digit is an **even number** or **zero**

So, if we subtract **1** from **963** then we will get the number **962** which is a **even** number.

**963 – 1 = 962**

And it is divisible by **2**.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**3)** What is the least number that must be subtracted from the following numbers to get the numbers divisible by 2?.

**Answer:** **(d) 2145** **1**.

As we know, A number is divisible by **2**
if its last digit is an **even number** or **zero**

So, if we subtract **1** from **2145** then we will get the number **2144** which is a **even** number.

**2145 – 1 = 2144**

And it is divisible by **2**.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**3)** What is the least number that must be subtracted from the following numbers to get the numbers divisible by 2?.

**Answer:** **(e) 22,243** **1**.

As we know, A number is divisible by **2**
if its last digit is an **even number** or **zero**

So, if we subtract **1** from **22,243** then we will get the number **22,242** which is a **even** number.

**22,243 – 1 = 22,242**

And it is divisible by **2**.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**4.** **(a)** Is 4,122 divisible by 2? **Yes**.

As we know, A number is divisible by **2**
if its last digit is an **even number** or **zero**

So, **4,122** is divisible by **2** as it is a **even** number.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**4.** **(b)** Is 3,646 divisible by 2? **Yes**.

As we know, A number is divisible by **2**
if its last digit is an **even number** or **zero**

So, **3,646** is divisible by **2** as it is a **even** number.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**4. (c)** Will their difference also be divisible by 2? **Yes**.

As we know, A number is divisible by **2**
if its last digit is an **even number** or **zero**

The difference between **4,122** and **3,646** is **476**.

**4,122 – 3,646 = 476**

**476** is divisible by **2** as it is a **even** number.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**4.** **(d)** Will their sum also be divisible by 2? **Yes**.

As we know, A number is divisible by **2**
if its last digit is an **even number** or **zero**

The sum between **4,122** and **3,646** is **476**.

**4,122** + **3,646** = **7,768**

**7,768** is divisible by **2** as it is a **even** number.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**5)** Find without actual division, which of the following numbers are divisible by 4. Tick (✓) them.

**Answer:**

**(a)** 72 ✓. **(b)** 96 ✓. **(c)** 124 ✓. **(d)** 318 ✗.

**(e)** 814 ✗. **(f)** 930 ✗. **(g)** 1726 ✗. **(h)** 2400 ✓.

**(i)** 3636 ✓. **(j)** 12,416 ✓. **(k)** 26,410 ✗. **(l)** 66,048 ✓.

# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**6)** Write down ten numbers greater than **800** but less than **900** which are divisible by **4**.

**Answer:**

**808** As per rule, it's last two digit divisible by **4**.

**812** As per rule, it's last two digit divisible by **4**.

**816** As per rule, it's last two digit divisible by **4**.

**832** As per rule, it's last two digit divisible by **4**.

**840** As per rule, it's last two digit divisible by **4**.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**6)** Write down ten numbers greater than **800** but less than **900** which are divisible by **4**.

**Answer:**

**844** As per rule, it's last two digit divisible by **4**.

**852** As per rule, it's last two digit divisible by **4**.

**860** As per rule, it's last two digit divisible by **4**.

**868** As per rule, it's last two digit divisible by **4**.

**880** As per rule, it's last two digit divisible by **4**.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**7)** Write down ten numbers greater than **7420** but less than **8000** which are divisible by **4**.

**Answer:**

**7424** As per rule, it's last two digit divisible by **4**.

**7432** As per rule, it's last two digit divisible by **4**.

**7440** As per rule, it's last two digit divisible by **4**.

**7444** As per rule, it's last two digit divisible by **4**.

**7456** As per rule, it's last two digit divisible by **4**.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**7)** Write down ten numbers greater than **7420** but less than **8000** which are divisible by **4**.

**Answer:**

**7460** As per rule, it's last two digit divisible by **4**.

**7468** As per rule, it's last two digit divisible by **4**.

**7476** As per rule, it's last two digit divisible by **4**.

**7484** As per rule, it's last two digit divisible by **4**.

**7492** As per rule, it's last two digit divisible by **4**.

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# TEST OF DIVISIBILITY

## EXERCISE – 9(B)

**8)** Find without actual division, which of the following numbers are divisible by 3.

**Answer:**

**(a)** 87 ✓. **(b)** 93 ✓. **(c)** 426 ✓. **(d)** 515 ✗.

**(e)** 710 ✗. **(f)** 810 ✓. **(g)** 1240 ✗. **(h)** 2310 ✓.

**(i)** 7413 ✓. **(j)** 15,582 ✗. **(k)** 71,443 ✗. **(l)** 91,002 ✓.

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# HOME ASSIGNMENT:

- **Complete Exercise – 9(B) in your note book.**

# LEARNING OUTCOME:

**Students are  able to understand how to use the divisibility rules of different numbers.**

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# THANKING YOU

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