

CBSE CLASS 6 MATHEMATICS

PRIME TIME — MCQ WORKSHEET

Name: _____

Class: _____

Date: _____

Section A – HCF

1. Multiple Choice Questions (MCQ)

1. HCF of 24 and 36 is: a) 6 b) 12 c) 18 d) 24
2. HCF of 45 and 75 is: a) 15 b) 25 c) 45 d) 75
3. HCF of 16 and 28 is: a) 2 b) 4 c) 8 d) 16
4. HCF of 81 and 108 is: a) 9 b) 27 c) 36 d) 81
5. HCF of 72 and 120 is: a) 12 b) 24 c) 36 d) 48

2. True or False

1. HCF of 18 and 24 is 6.
2. HCF of 25 and 30 is 10.
3. HCF of 12 and 20 is 4.
4. HCF of 9 and 27 is 9.
5. HCF of 14 and 49 is 7.

3. Fill in the blanks

1. HCF of 32 and 48 is _____.
2. HCF of 50 and 75 is _____.
3. HCF of 63 and 84 is _____.
4. HCF of 36 and 54 is _____.
5. HCF of 40 and 56 is _____.

4. Match the following

Numbers	HCF
18, 27	a) 12
20, 28	b) 9
36, 48	c) 4

Numbers	HCF
45, 60	d) 15
24, 36	e) 12

5. Find (Direct Problems)

1. Find HCF of 48 and 64.
2. Find HCF of 72 and 108.
3. Find HCF of 90 and 150.
4. Find HCF of 84, 126, and 210.
5. Find HCF of 120 and 144.

6. Word Problems

1. Two bells ring at intervals of 18 minutes and 24 minutes. After how many minutes will they ring together?
2. A farmer has 84 apples and 126 oranges. He wants to pack them in boxes with equal number of fruits. What is the maximum number of fruits in each box?
3. Find the greatest length of rope that can measure exactly 72 m and 108 m.
4. A school has 90 boys and 150 girls. Find the maximum number of groups that can be formed with equal number of boys and girls.
5. Three numbers are 36, 60, and 84. Find their HCF.

Section B – LCM

1. Multiple Choice Questions (MCQ)

1. LCM of 12 and 18 is: a) 36 b) 72 c) 54 d) 24
2. LCM of 20 and 30 is: a) 60 b) 120 c) 30 d) 90
3. LCM of 15 and 25 is: a) 75 b) 50 c) 100 d) 25
4. LCM of 9 and 12 is: a) 18 b) 36 c) 27 d) 12
5. LCM of 16 and 24 is: a) 48 b) 96 c) 24 d) 72

2. True or False

1. LCM of 18 and 24 is 72.
2. LCM of 25 and 30 is 150.

3. LCM of 12 and 20 is 60.
4. LCM of 9 and 27 is 27.
5. LCM of 14 and 49 is 98.

3. Fill in the blanks

1. LCM of 32 and 48 is _____.
2. LCM of 50 and 75 is _____.
3. LCM of 63 and 84 is _____.
4. LCM of 36 and 54 is _____.
5. LCM of 40 and 56 is _____.

4. Match the following

Numbers	LCM
18, 27	a) 180
20, 28	b) 540
36, 48	c) 180
45, 60	d) 540
24, 36	e) 72

5. Find (Direct Problems)

1. Find LCM of 48 and 64.
2. Find LCM of 72 and 108.
3. Find LCM of 90 and 150.
4. Find LCM of 84, 126, and 210.
5. Find LCM of 120 and 144.

6. Word Problems

1. Two traffic lights change after 48 seconds and 64 seconds. After how many seconds will they change together?
2. A shopkeeper has 72 pencils and 108 pens. He wants to make packets with equal number of pencils and pens. What is the minimum number of pencils and pens in each packet?

3. Find the least number which is exactly divisible by 36, 60, and 84.
4. Three bells ring at intervals of 20, 30, and 40 minutes. After how many minutes will they ring together?
5. A hall has 120 chairs and 144 tables. Find the least number of sets that can be formed with equal number of chairs and tables.

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✓ Answer Key

Section A – HCF

- MCQ: 1-b, 2-a, 3-b, 4-b, 5-b
- True/False: 1-T, 2-F, 3-T, 4-T, 5-T
- Fill: 16, 25, 21, 18, 8
- Match: (18,27→9), (20,28→4), (36,48→12), (45,60→15), (24,36→12)
- Find:
 1. 16
 2. 36
 3. 30
 4. 42
 5. 24
- Word Problems (with steps):
 1. $\text{HCF}(18,24)=6 \rightarrow \text{LCM}=72 \rightarrow \text{Together after 72 min}$
 2. $\text{HCF}(84,126)=42 \rightarrow \text{Max fruits per box}=42$
 3. $\text{HCF}(72,108)=36 \rightarrow \text{Rope length}=36 \text{ m}$
 4. $\text{HCF}(90,150)=30 \rightarrow \text{Groups}=30$
 5. $\text{HCF}(36,60,84)=12$

Section B – LCM

- MCQ: 1-a, 2-a, 3-a, 4-b, 5-a
- True/False: 1-T, 2-T, 3-T, 4-T, 5-T
- Fill: 96, 150, 252, 108, 280
- Match: (18,27→54), (20,28→140), (36,48→144), (45,60→180), (24,36→72)
- Find:
 1. 192
 2. 216
 3. 450
 4. 420
 5. 720
- Word Problems (with steps):
 1. $\text{LCM}(48,64)=192 \rightarrow \text{Together after 192 sec}$
 2. $\text{LCM}(72,108)=216 \rightarrow \text{Min pencils \& pens}=216$
 3. $\text{LCM}(36,60,84)=420 \rightarrow \text{Least number}=420$
 4. $\text{LCM}(20,30,40)=120 \rightarrow \text{Together after 120 min}$
 5. $\text{LCM}(120,144)=720 \rightarrow \text{Sets}=720$