



## TAM SAYILAR YANIT ANAHTARI

### ► TEMEL KAVRAM – 1

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- |       |             |       |
|-------|-------------|-------|
| 1. 54 | 3. 77       | 5. 17 |
| 2. 0  | 4. I ve III | 6. 5  |

### ► TEMEL KAVRAM – 2

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- |       |                  |       |       |
|-------|------------------|-------|-------|
| 1. 41 | 3. 6             | 5. 46 | 7. 1  |
| 2. 11 | 4. $\frac{3}{2}$ | 6. 21 | 8. 93 |

### ► TEMEL KAVRAM – 3

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- |       |       |       |       |
|-------|-------|-------|-------|
| 1. 14 | 3. 10 | 5. 33 | 7. 33 |
| 2. 13 | 4. 4  | 6. 9  | 8. 19 |

### ► TEMEL KAVRAM – 4

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- |       |        |        |       |
|-------|--------|--------|-------|
| 1. 35 | 3. 0   | 5. 144 | 7. 90 |
| 2. 46 | 4. 144 | 6. 420 | 8. 50 |

### ► TEMEL KAVRAM – 5

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- |                   |       |       |       |
|-------------------|-------|-------|-------|
| 1. $\frac{10}{3}$ | 3. 7  | 5. 20 | 7. 15 |
| 2. 6              | 4. 21 | 6. 5  | 8. 5  |

### ► TEMEL KAVRAM – 6

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- |       |       |       |
|-------|-------|-------|
| 1. 16 | 3. 50 | 5. 11 |
| 2. 11 | 4. 2  | 6. 6  |



# RASYONEL SAYILAR YANIT ANAHTARI

## TEMEL KAVRAM – 1

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- |       |      |       |       |       |
|-------|------|-------|-------|-------|
| 1. 25 | 3. 2 | 5. 5  | 7. 25 | 9. 20 |
| 2. 7  | 4. 1 | 6. -1 | 8. 4  |       |

## TEMEL KAVRAM – 2

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- |      |                  |       |      |  |
|------|------------------|-------|------|--|
| 1. 7 | 3. 1             | 5. 10 | 7. 4 |  |
| 2. 5 | 4. $\frac{8}{5}$ | 6. 13 | 8. 2 |  |

## TEMEL KAVRAM – 3

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- |       |      |            |           |  |
|-------|------|------------|-----------|--|
| 1. 18 | 3. 5 | 5. $-a-1$  | 7. $1-3x$ |  |
| 2. 2  | 4. 4 | 6. $100-A$ | 8. 6      |  |

## TEMEL KAVRAM – 4

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- |       |      |       |       |      |
|-------|------|-------|-------|------|
| 1. 10 | 3. 0 | 5. 3  | 7. 8  | 9. 5 |
| 2. 14 | 4. 8 | 6. 20 | 8. 30 |      |

## TEMEL KAVRAM – 5

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- |        |       |        |      |  |
|--------|-------|--------|------|--|
| 1. 220 | 3. 2  | 5. 33  | 7. 5 |  |
| 2. 1,1 | 4. 24 | 6. 944 | 8. 6 |  |

## TEMEL KAVRAM – 6

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- |       |                   |      |      |       |
|-------|-------------------|------|------|-------|
| 1. 2  | 3. 14             | 5. 3 | 7. 3 | 9. 20 |
| 2. 10 | 4. $\frac{4}{15}$ | 6. 5 | 8. 8 |       |



# TEK-ÇİFT, ARDIŞIK SAYILAR YANIT ANAHTARI

## TEMEL KAVRAM – 1

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- |       |        |        |              |
|-------|--------|--------|--------------|
| 1. IV | 3. III | 5. III | 7. E         |
| 2. IV | 4. C   | 6. D   | 8. Yalnız II |

## TEMEL KAVRAM – 2

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- |      |      |      |      |              |
|------|------|------|------|--------------|
| 1. D | 3. D | 5. C | 7. E | 9. II ve III |
| 2. D | 4. D | 6. A | 8. C |              |

## TEMEL KAVRAM – 3

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- |       |       |        |       |
|-------|-------|--------|-------|
| 1. 24 | 3. 7  | 5. 30  | 7. 75 |
| 2. 8  | 4. 18 | 6. -26 | 8. 15 |

## TEMEL KAVRAM – 4

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- |       |       |       |       |        |
|-------|-------|-------|-------|--------|
| 1. 21 | 3. 29 | 5. 19 | 7. 11 | 9. 17  |
| 2. 22 | 4. 28 | 6. 30 | 8. 43 | 10. 11 |

## TEMEL KAVRAM – 5

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- |       |        |         |                   |       |
|-------|--------|---------|-------------------|-------|
| 1. 15 | 3. 141 | 5. $3n$ | 7. 30             | 9. 10 |
| 2. 44 | 4. 108 | 6. 3    | 8. $\frac{10}{9}$ |       |



# SAYI ÇÖZÜMLEME YANIT ANAHTARI

## TEMEL KAVRAM – 1

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1. -1	3. -1	5. 227	7. 59	9. 30
2. 88	4. 25	6. 51	8. 39	

## TEMEL KAVRAM – 2

---

1. 10	3. 6	5. 8	7. 14	9. 15
2. 27	4. 35	6. 10	8. 36	10. 9

## TEMEL KAVRAM – 3

---

1. 8	3. 2	5. 7	7. 14	9. 12
2. 48	4. 12	6. 35	8. 11	

## TEMEL KAVRAM – 4

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1. 4	3. 969	5. 15	7. 21
2. 9	4. 13	6. 40	8. 804

## TEMEL KAVRAM – 5

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1. 6	3. 144	5. 1080	7. 45
2. 6	4. 3	6. 5	



# BÖLME-BÖLÜNEBİLME YANIT ANAHTARI

## TEMEL KAVRAM – 1

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1. $a=101, k=3$ $x=10010, y=5$	3. E	5. 8	7. 1	9. 1
2. $m=-5, x=3$ $a=5, b=15$	4. 72	6. 4	8. 7	

## TEMEL KAVRAM – 2

---

1. 41	3. 9	5. 42	7. 3	9. 10
2. 47	4. 5	6. 129	8. 8	

## TEMEL KAVRAM – 3

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1. 6	3. 8	5. 81	7. 13	9. 95
2. 1	4. 88	6. 1	8. 1	

## TEMEL KAVRAM – 4

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1. 11	3. 15	5. 5	7. 6	
2. 2	4. 6	6. 3	8. 5	

## TEMEL KAVRAM – 5

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1. 4	3. 9	5. 17	7. 12	
2. 6	4. 20	6. 30	8. 7	

## TEMEL KAVRAM – 6

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1. 8	3. 8	5. 12	7. 8	
2. 7	4. 72	6. 9	8. 14	



# ASAL SAYILAR, ASAL ÇARPANLAR YANIT ANAHTARI

## TEMEL KAVRAM – 1

- |        |               |       |       |                      |
|--------|---------------|-------|-------|----------------------|
| 1. 7   | 3. Yalnız III | 5. 12 | 7. 2  | 9. 10                |
| 2. 111 | 4. Yalnız III | 6. 82 | 8. 70 | 10. $\frac{2p+1}{3}$ |

## TEMEL KAVRAM – 2

- |      |       |
|------|-------|
| 1. A | 3. 82 |
| 2. D |       |

## TEMEL KAVRAM – 3

- |       |       |      |             |
|-------|-------|------|-------------|
| 1. 11 | 3. 4  | 5. 1 | 7. Yalnız I |
| 2. 9  | 4. 28 | 6. 4 |             |

## TEMEL KAVRAM – 4

- |        |               |       |              |
|--------|---------------|-------|--------------|
| 1. 55  | 3. a) 43 b)47 | 5. C  | 7. Yalnız II |
| 2. 124 | 4. 9          | 6. 10 |              |

## TEMEL KAVRAM – 5

- |      |      |      |       |                |
|------|------|------|-------|----------------|
| 1. 7 | 3. 3 | 5. 3 | 7. 21 | 9. a) 24 b)108 |
| 2. 4 | 4. 9 | 6. 4 | 8. 4  |                |

## TEMEL KAVRAM – 6

- |        |       |       |        |      |
|--------|-------|-------|--------|------|
| 1. 15  | 3. 18 | 5. 45 | 7. 27  | 9. 1 |
| 2. 300 | 4. 1  | 6. 12 | 8. 252 |      |

## TEMEL KAVRAM – 7

- |       |       |       |                    |               |
|-------|-------|-------|--------------------|---------------|
| 1. 48 | 3. 10 | 5. 7  | 7. 5               | 9. 24         |
| 2. 5  | 4. 22 | 6. 10 | 8. a) 18 b) 8 c) 6 | 10. a) 6 b) 6 |



# EBOB-EKOK YANIT ANAHTARI

## TEMEL KAVRAM – 1

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- |      |                |       |      |
|------|----------------|-------|------|
| 1. 3 | 3. 42          | 5. 15 | 7. 8 |
| 2. 5 | 4. $b > c > a$ | 6. 17 |      |

## TEMEL KAVRAM – 2

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- |       |       |      |       |            |
|-------|-------|------|-------|------------|
| 1. 10 | 3. 27 | 5. 7 | 7. 8  | 9. I ve II |
| 2. 10 | 4. 5  | 6. 5 | 8. 35 |            |

## TEMEL KAVRAM – 3

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- |                        |       |        |       |
|------------------------|-------|--------|-------|
| 1. a) 30 b) 10 c) -170 | 3. 5  | 5. 37  | 7. 76 |
| 2. 255                 | 4. 96 | 6. 125 | 8. 30 |

## TEMEL KAVRAM – 4

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- |                          |       |        |       |
|--------------------------|-------|--------|-------|
| 1. a) 30 b) 20 c) 8 d) 9 | 3. 40 | 5. 4   | 7. 63 |
| 2. a) 330 b) 18          | 4. 12 | 6. 264 |       |

## TEMEL KAVRAM – 5

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- |       |       |       |        |
|-------|-------|-------|--------|
| 1. 15 | 3. 14 | 5. 21 | 7. 149 |
| 2. 12 | 4. 12 | 6. 10 | 8. 962 |

## TEMEL KAVRAM – 6

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- |        |          |       |
|--------|----------|-------|
| 1. 60  | 3. 18.30 | 5. 35 |
| 2. 900 | 4. 24    | 6. 41 |



## EBOB-EKOK YANIT ANAHTARI

### TEMEL KAVRAM – 7

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- |      |      |      |
|------|------|------|
| 1. D | 3. C | 5. 3 |
| 2. E | 4. B | 6. G |

### TEMEL KAVRAM – 8

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1. a) 10.22 b) 2.22 c) 4.22 d) Pazar 1.22      3. a) Perşembe b) Cumartesi c) Çarşamba d) Pazar e) Perşembe
2. a) 19.34 b) 01.34 c) 12 Ocak Perşembe 06.34

### TEMEL KAVRAM – 9

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- |             |              |                |              |
|-------------|--------------|----------------|--------------|
| 1. Perşembe | 3. Ocak      | 5. Salı        | 7. Pazartesi |
| 2. Perşembe | 4. Pazartesi | 6. Pazar 22.00 | 8. 29.       |





## BASİT EŞİTSİZLİKLER YANIT ANAHTARI

### TEMEL KAVRAM - 1

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- |      |      |      |
|------|------|------|
| 1. E | 3. E | 5. A |
| 2. C | 4. B | 6. C |

### TEMEL KAVRAM – 2

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- |                |                |                |                |
|----------------|----------------|----------------|----------------|
| 1. $y < z < x$ | 3. $y < x < z$ | 5. $z < y < x$ | 7. $x < z < y$ |
| 2. $b < a < c$ | 4. $c < a < b$ | 6. $y < x < z$ | 8. D           |

### TEMEL KAVRAM – 3

---

- |       |      |                    |       |
|-------|------|--------------------|-------|
| 1. 2  | 3. 5 | 5. 4               | 7. 19 |
| 2. 18 | 4. 4 | 6. $\frac{11}{12}$ |       |

### TEMEL KAVRAM – 4

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- |      |      |      |      |
|------|------|------|------|
| 1. A | 3. B | 5. B | 7. B |
| 2. E | 4. C | 6. C | 8. C |

### TEMEL KAVRAM – 5

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- |      |       |       |       |              |
|------|-------|-------|-------|--------------|
| 1. 7 | 3. 16 | 5. 15 | 7. 6  | 9. II ve III |
| 2. 9 | 4. 49 | 6. 3  | 8. 20 |              |

### TEMEL KAVRAM – 6

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- |                |            |                           |              |       |
|----------------|------------|---------------------------|--------------|-------|
| 1. a) 3 b) 9   | 3. (1, 34) | 5. $[-8, 17]$             | 7. $[1, 37)$ | 9. 18 |
| 2. $(-12, 14)$ | 4. 140     | 6. $-2 < \frac{x}{y} < 6$ | 8. 17        |       |

### TEMEL KAVRAM – 7

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- |      |      |      |              |
|------|------|------|--------------|
| 1. E | 3. C | 5. C | 7. E         |
| 2. B | 4. D | 6. C | 8. II ve III |



## ÜSLÜ SAYILAR YANIT ANAHTARI

### TEMEL KAVRAM – 1

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- |                    |                   |       |                   |
|--------------------|-------------------|-------|-------------------|
| 1. 5               | 3. $\frac{1}{16}$ | 5. -3 | 7. $\frac{16}{7}$ |
| 2. $-\frac{2}{27}$ | 4. 5              | 6. -6 |                   |

### TEMEL KAVRAM – 2

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- |      |      |      |                  |                  |
|------|------|------|------------------|------------------|
| 1. 6 | 3. 2 | 5. 3 | 7. $\frac{3}{2}$ | 9. $\frac{9}{4}$ |
| 2. 2 | 4. 5 | 6. 4 | 8. 5             | 10. 9            |

### TEMEL KAVRAM – 3

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- |       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 1. 64 | 3. 2  | 5. -2 | 7. 10 | 9. 2  |
| 2. 16 | 4. 36 | 6. 4  | 8. 8  | 10. 1 |

### TEMEL KAVRAM – 4

---

- |       |                  |      |       |
|-------|------------------|------|-------|
| 1. 2  | 3. 6             | 5. 3 | 7. 10 |
| 2. 10 | 4. $\frac{5}{2}$ | 6. 2 | 8. 99 |

### TEMEL KAVRAM – 5

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- |                |      |       |      |       |
|----------------|------|-------|------|-------|
| 1. $a < c < b$ | 3. B | 5. 10 | 7. 7 | 9. -3 |
| 2. $z < y < x$ | 4. B | 6. 8  | 8. 5 | 10. 5 |

### TEMEL KAVRAM – 6

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- |                  |       |       |       |
|------------------|-------|-------|-------|
| 1. 6             | 3. -1 | 5. 30 | 7. 14 |
| 2. $\frac{1}{2}$ | 4. 49 | 6. 49 | 8. 1  |

### TEMEL KAVRAM – 7

---

- |       |      |       |       |
|-------|------|-------|-------|
| 1. 25 | 3. 8 | 5. 8  | 7. 35 |
| 2. 31 | 4. 4 | 6. 20 | 8. 27 |



# KÖKLÜ SAYILAR YANIT ANAHTARI

## TEMEL KAVRAM – 1

---

1. 7

3. 4

5. 5

2. 8

4. 12

6. Yalnız I

## TEMEL KAVRAM – 2

---

1. 8

3. 37

5. 17

7. 6

9. 5

2. 10

4.  $\sqrt{2}$

6. -9

8. 2

## TEMEL KAVRAM – 3

---

1. -3

3.  $\frac{1}{16}$

5. 2016

7.  $\frac{17}{36}$

9. 9

2. 19

4. -55

6. 29

8. 19

## TEMEL KAVRAM – 4

---

1.  $9\sqrt{2}$

3.  $\sqrt{3}$

5.  $\sqrt{3} - \sqrt{2}$

7.  $\sqrt{3}$

9.  $\frac{\sqrt{2}}{4}$

2. 2

4. 3

6.  $a^{36}$

8. 16

10.  $5^5$

## TEMEL KAVRAM – 5

---

1.  $\frac{1}{2}$

3. 5

5. 2

7.  $\frac{4}{5}$

2. 1

4. 3

6. 5

## TEMEL KAVRAM – 6

---

1.  $6\sqrt{7}$

3. 5

5.  $\frac{4}{9}$

7. 4

9. 8

2.  $2\sqrt{6}$

4.  $3\sqrt{3}$

6. 4

8. A

10. 5



## KÖKLÜ SAYILAR YANIT ANAHTARI

### TEMEL KAVRAM – 7

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1.  $\sqrt[3]{25}$

3.  $\sqrt{2} + 1$

5. 6

2.  $2 + \sqrt{2}$

4. 2

6. 1

### TEMEL KAVRAM – 8

---

1.  $d < c = a < b$

3.  $a < c < b$

5.  $x < y < z$

7. 7

9. 7

2.  $z < x < y$

4.  $x < z < y$

6. 5

8. 6

10.  $b < c < a$

### TEMEL KAVRAM – 9

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1.  $\sqrt{10}$

3. 5

5. 34

7.  $\sqrt[3]{4}$

2.  $\sqrt{13}$

4. 4

6.  $\sqrt{3} + 1$



# MUTLAK DEĞER YANIT ANAHTARI

## TEMEL KAVRAM – 1

- |       |                 |                  |
|-------|-----------------|------------------|
| 1. -3 | 3. $3-\sqrt{3}$ | 5. $\frac{7}{3}$ |
| 2. 5  | 4. 4            | 6. 4             |

## TEMEL KAVRAM – 2

- |           |            |                   |          |      |
|-----------|------------|-------------------|----------|------|
| 1. $4-2x$ | 3. $3n-3m$ | 5. -6             | 7. $y+x$ | 9. 3 |
| 2. 2      | 4. $-2ab$  | 6. $\frac{12}{5}$ | 8. 5     |      |

## TEMEL KAVRAM – 3

- |       |       |       |        |           |             |
|-------|-------|-------|--------|-----------|-------------|
| 1. 14 | 3. 6  | 5. 6  | 7. -64 | 9. 0      | 11. I ve II |
| 2. 10 | 4. 41 | 6. 18 | 8. 10  | 10. $x>4$ |             |

## TEMEL KAVRAM – 4

- |       |       |       |      |
|-------|-------|-------|------|
| 1. -9 | 3. 27 | 5. 9  | 7. 3 |
| 2. 14 | 4. 5  | 6. 10 | 8. 6 |

## TEMEL KAVRAM – 5

- |           |         |       |       |                   |
|-----------|---------|-------|-------|-------------------|
| 1. 6      | 3. 9    | 5. -1 | 7. 49 | 9. 11             |
| 2. $\{\}$ | 4. 2016 | 6. 4  | 8. 2  | 10. $\frac{3}{2}$ |

## TEMEL KAVRAM – 6

- |       |      |       |       |            |
|-------|------|-------|-------|------------|
| 1. -9 | 3. 6 | 5. -9 | 7. -1 | 9. -5      |
| 2. 9  | 4. 0 | 6. 2  | 8. 8  | 10. $\{\}$ |



# MUTLAK DEĞER YANIT ANAHTARI

## TEMEL KAVRAM – 7

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- |      |       |        |      |       |
|------|-------|--------|------|-------|
| 1. 2 | 3. 13 | 5. 6   | 7. 2 | 9. 1  |
| 2. 2 | 4. 4  | 6. -64 | 8. 2 | 10. 1 |

## TEMEL KAVRAM – 8

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- |       |        |            |                    |
|-------|--------|------------|--------------------|
| 1. -4 | 3. -21 | 5. [-4, 2] | 7. $(-\infty, -2]$ |
| 2. 5  | 4. 6   | 6. -5      | 8. { }             |

## TEMEL KAVRAM – 9

---

- |       |        |       |      |       |
|-------|--------|-------|------|-------|
| 1. 20 | 3. { } | 5. 25 | 7. 9 | 9. 2  |
| 2. 15 | 4. 3   | 6. 6  | 8. 3 | 10. C |

## TEMEL KAVRAM – 10

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- |       |                 |      |       |  |
|-------|-----------------|------|-------|--|
| 1. 4  | 3. $\mathbb{R}$ | 5. 4 | 7. 4  | 9. $\left(-\infty, \frac{5}{4}\right]$ |
| 2. 14 | 4. $x < 5$      | 6. 8 | 8. 11 | 10. 13                                 |



# ÖZDEŞLİKLER ve ÇARPANLARA AYIRMA YANIT ANAHTARI

## TEMEL KAVRAM – 1

- A.  $ab(a-b^2) / 6! \cdot 50 / (x-y)(a-1) / (x-1)(x^2+2x-4) / (a-b)(a+3) / (y+2)(x-5) / (3^2+1)(3^7+1) / (a+b)(a^2+b^2) / (n-1)((n-1)!-1) / 4031 / (x-2)(y-3x+1)$
- B.  $(x-4)(x+2) / (2x+7)(x-1) / (3x-1)(x-1) / (4x+5)(x+1) / (3x+5)(x-2) / (5x+1)(x-3) / (x-1)(x^2+x-3) / (2^{10}+1)(2^{10}+3) / (a-3)(a+3)(a^2+1) / (m-2)(m+1)(m^2-m+1) / (x-1)(x-3)(x+2)$

## TEMEL KAVRAM – 2

- |       |       |      |       |       |
|-------|-------|------|-------|-------|
| 1. -5 | 3. 15 | 5. 2 | 7. 8  | 9. 72 |
| 2. 9  | 4. 19 | 6. 3 | 8. 11 | 10. 2 |

## TEMEL KAVRAM – 3

- |                  |       |      |       |      |
|------------------|-------|------|-------|------|
| 1. 60            | 3. 25 | 5. 4 | 7. 64 | 9. 6 |
| 2. $\frac{1}{2}$ | 4. 5  | 6. 5 | 8. 1  |      |

## TEMEL KAVRAM – 4

- |        |          |                    |         |        |
|--------|----------|--------------------|---------|--------|
| 1. 13  | 3. 45    | 5. 7               | 7. -32  | 9. 181 |
| 2. 140 | 4. $3^7$ | 6. $\frac{41}{80}$ | 8. -120 |        |

## TEMEL KAVRAM – 5

- |         |       |        |      |        |
|---------|-------|--------|------|--------|
| 1. -144 | 3. 13 | 5. 995 | 7. 3 | 9. -25 |
| 2. 5    | 4. 9  | 6. 55  | 8. 2 |        |

## TEMEL KAVRAM – 6

- |         |      |       |       |        |
|---------|------|-------|-------|--------|
| 1. 7469 | 3. 3 | 5. 21 | 7. -3 | 9. 9   |
| 2. 6    | 4. 6 | 6. 2  | 8. 3  | 10. 20 |



# ÖZDEŞLİKLER ve ÇARPANLARA AYIRMA YANIT ANAHTARI

## TEMEL KAVRAM – 7

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1. 15	3. $\frac{5}{2}$	5. 23	7. $\sqrt{6}$	9. 56
2. 4	4. 16	6. 4	8. 11	10. 60

## TEMEL KAVRAM – 8

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1. 11	3. 5	5. 6	7. 4	9. 6
2. 11	4. 161	6. 4	8. 15	10. 1

## TEMEL KAVRAM – 9

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1. 3	3. -10	5. 7	7. 6
2. -2	4. 485	6. 50	8. 30

## TEMEL KAVRAM – 10

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1. 2	3. $t-3$	5. 3	7. 0	9. 3
2. 3	4. -14	6. -8	8. $\frac{17}{12}$	10. 3

## TEMEL KAVRAM – 11

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1. $\frac{a+2}{2}$	3. -1	5. $x-b$	7. $\frac{x+y}{x-1}$	9. -1
2. $\frac{1}{y-2}$	4. $\frac{x-a}{x+a}$	6. $3+a$	8. $xy$	10. $\frac{a+b}{a^2+b^2}$

## TEMEL KAVRAM – 12

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1. 2	3. 3	5. $\frac{1}{3}$	7. 14	9. -16
2. $\frac{2}{\sqrt{3}}$	4. 4	6. 4	8. -4	10. -1