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Batch: 4

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Q1

```
int attended = 68;
```

```
int total = 75;
```

```
double percentage = (attended * 100.0) / total;
```

```
int displayPercent = (int)Math.Round(percentage);
```

Q2

```
int totalMarks = 425;
```

```
int subjects = 5;
```

```
double average = totalMarks / (double)subjects;
```

```
double roundedAvg = Math.Round(average, 2);
```

```
int scholarshipScore = (int)Math.Floor(roundedAvg);
```

Q3

```
decimal finePerDay = 2.50m;
```

```
int daysLate = 7;
```

```
decimal totalFine = finePerDay * daysLate;
```

```
double analyticsFine = (double)totalFine;
```

Q4

```
decimal balance = 1000000m;
```

```
float rate = 7.5f;
```

```
decimal interestRate = (decimal)rate / 100;  
decimal interest = balance * interestRate / 12;  
  
balance += interest;
```

Q5

```
double cartTotal = 999.99;  
decimal taxRate = 0.18m;  
  
decimal total = (decimal)cartTotal;  
decimal tax = total * taxRate;  
decimal finalAmount = total + tax;
```

Q6

```
short sensorValue = 325;  
double celsius = sensorValue / 10.0;  
  
int displayTemp = (int)Math.Round(celsius);
```

Q7

```
double score = 87.5;  
byte grade;  
  
if (score >= 90) grade = 10;  
else if (score >= 80) grade = 9;  
else grade = 8;
```

Q8

```
long bytesUsed = 5368709120;
```

```
double gb = bytesUsed / (1024.0 * 1024 * 1024);
```

```
int roundedGB = (int)Math.Round(gb);
```

Q9

```
int items = 500;
```

```
ushort maxCapacity = 600;
```

```
if (items >= maxCapacity)
```

```
{
```

```
    Console.WriteLine("Cant store anymore");
```

```
}
```

Q10

```
int basic = 30000;
```

```
double allowance = 5230.75;
```

```
double deduction = 1800.25;
```

```
decimal netSalary = basic
```

```
    + (decimal)allowance
```

```
    - (decimal)deduction;
```