

Home Work II (Day 2) - Answers

1. Multiplication and Sum of two numbers:

```
a = 10
```

```
b = 5
```

```
print('Multiplication:', a*b)
```

```
print('Sum:', a+b)
```

2. String made of first, middle and last character:

```
str1 = 'Quality Thought'
```

```
result = str1[0] + str1[len(str1)//2] + str1[-1]
```

```
print(result)
```

3. One half of 100 is:

```
num = 100
```

```
print('One half of', num, 'is', num//2)
```

4. $\text{myTotal} = 4 + 2 * 8 - 6$

Answer: 14

Explanation: Multiplication has higher precedence than addition/subtraction.

5. $\text{myTotal} = 7 // 5$

Answer: 1 (Floor division gives integer result).

6. $\text{myTotal} = (8 + 2) * 10$

Answer: 100 (brackets change the precedence).

7. $\text{myTotal} = 8 + 2 * 10$

Answer: 28 (multiplication first, then addition).

8. $\text{myTotal} = 8 + 10 / 2 \rightarrow 13.0$

$\text{myTotal} = (8 + 10) / 2 \rightarrow 9.0$

9. $\text{numberOne} = 16$

$\text{numberTwo} = 4$

$\text{answer} = \text{numberOne} + \text{numberTwo} + 20 = 40$

$\text{answer} = 10 * \text{numberOne} + (\text{numberTwo} + 20) = 180$

$\text{answer} = \text{numberOne} + 20 + \text{numberTwo} - 10 = 30$

10. String concatenation:

```
FirstName = 'Quality'
```

```
SecondName = 'Thought'
```

```
print('Full Name is:', FirstName, SecondName)
```