Python Arithmetic Operators Test

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1. Basic Understanding

Question 1:

What is the result of the following operation in Python?

print(10 + 5)

Options:
a) 15
b) 105
c) 10.5
d) Error

Question 2:

What will this code output?

print(15 - 7)

Options:
a) 8
b) -8
c) 7
d) Error

Question 3:

Which operator is used for multiplication in Python?
Options:
a) *
b) x
c) mult
d) .

Question 4:

What will this code produce?

print(20 / 4)

Options:
a) 5
b) 5.0
c) 4
d) Error

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2. Intermediate Applications

Question 5:

What is the result of the following code?

```
print(10 % 3)
```

Options:
a) 1
b) 0
c) 3
d) Error

Question 6:

What does the ** operator do in Python?
Options:
a) Addition
b) Division
c) Exponentiation
d) Modulus

Question 7:

Predict the output:

```
result = 3 * (2 + 4) - 5

print(result)
```

Options:
a) 7
b) 13
c) 11
d) 17

Question 8:

What is the result of print(9 // 2)?
Options:
a) 4.5
b) 4
c) 5
d) Error

3. Problem-Solving

Question 9:

Write a Python program to calculate the area of a rectangle where:

- Length = 10

- Breadth = 5

Question 10:

What is the output of the following code?

```
x = 7
x += 3
x *= 2
print(x)
```

Options:
a) 14
b) 17
c) 20
d) 10

4. Bonus Challenge

Question 11:

Evaluate and write the output of the following code:

```
a = 5
b = 2
c = a ** b
d = c % b
print(a + b + c + d)
```