



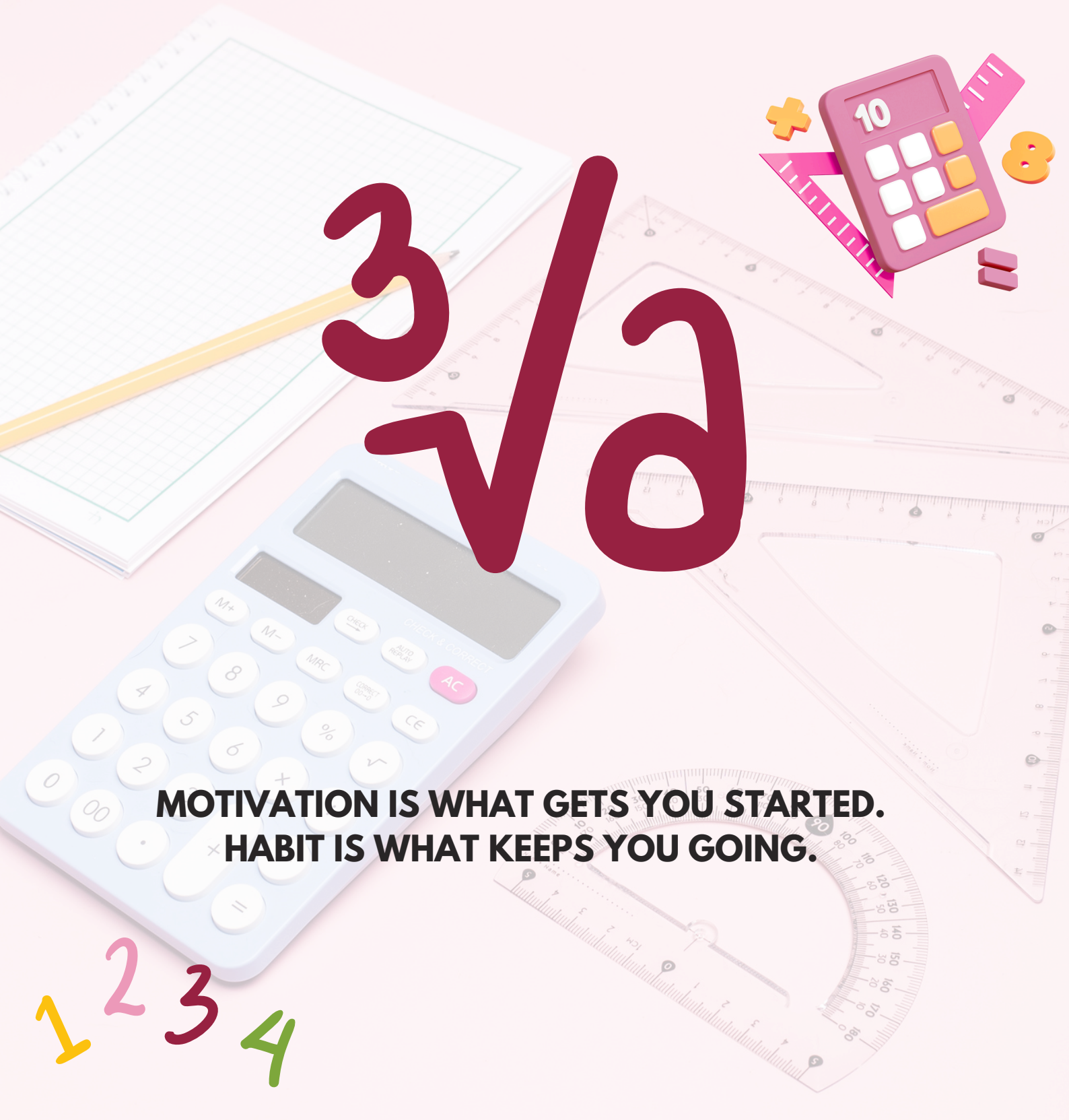
# CUBE & CUBE ROOTS

Worksheet 5

$$\sqrt[3]{a}$$

**MOTIVATION IS WHAT GETS YOU STARTED.  
HABIT IS WHAT KEEPS YOU GOING.**

1 2 3 4



1. Find the multiplicative inverse of:  $\sqrt[3]{8 \times 17 \times 17 \times 17}$

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2. If  $\sqrt[3]{729} = 9$  then  $\sqrt[3]{0.000729} = ?$

A. 0.09

B. 0.009

C. 0.0009

D. 0.007

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3. Evaluate:  $\{(6^2 + (8^2)^{\frac{1}{2}})\}^3$

A. 85884

B. 85114

C. 85184

D. 84184

---

4. Evaluate:  $125\sqrt[3]{a^6} - \sqrt[3]{125a^6}$

A. 120

B.  $120a^2$

C. 120

D.  $121a^2$

---

5. Evaluate:  $\sqrt[3]{700 \times 2 \times 49 \times 5}$

A. 70

B. 700

C. 7000

D. 7

---

6. Evaluate:  $\sqrt[3]{\frac{0.027}{0.008}} \div \sqrt{\frac{0.09}{0.04}} - 1$

A. 1

B. -1

C. 0

D. undefined

---

7. Find the smallest number by which 8768 must be divided so that the quotient is a perfect cube.

A. 131

B. 133

C. 135

D. 137

---

8. Evaluate:  $\sqrt[3]{(-1331) \times (3375)}$

A. -165

B. 165

C. 156

D. -156

---

9. Simplify:  $\sqrt[3]{27} + \sqrt[3]{0.008} + \sqrt[3]{0.064}$

A. 3.6

B. 3.8

C. 0.36

D. 0.038

---

10. Difference of two perfect cubes is 387. If the cube root of the greater of two numbers is 8, find the cube root of the smaller number.

A. 5

B. 3

C. 7

D. 8

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# Answer Key

1.1/34

2.A

3.C

4.B

5.A

6.C

7.D

8.A

9.A

10.A



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