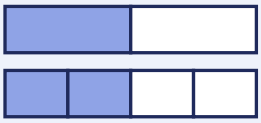
ISLAND EXPLORERS · YEAR 3 · MATHS

Equivalent Fractions

Name _____

Date _____



Equivalent fractions are the same amount. $\frac{1}{2} = \frac{2}{4}$: the shaded parts are the same length. To find one, **multiply the top and the bottom by the same number**. To simplify, divide them both by the same number. Never add!

A Shade and match

4 marks

Shade the bottom bar so the same amount is shaded as the top bar. Then fill in the missing number.

1 

$\frac{1}{2} = \frac{\square}{4}$

2 

$\frac{1}{3} = \frac{\square}{6}$

3 

$\frac{1}{4} = \frac{\square}{8}$

4 

$\frac{2}{3} = \frac{\square}{6}$

B Missing numbers

6 marks

Whatever you do to the bottom, do to the top.

5 $\frac{1}{2} = \frac{\square}{6}$

6 $\frac{1}{3} = \frac{\square}{9}$

7 $\frac{2}{5} = \frac{\square}{10}$

8 $\frac{3}{4} = \frac{9}{\square}$

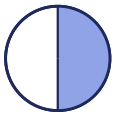
9 $\frac{2}{3} = \frac{\square}{12}$

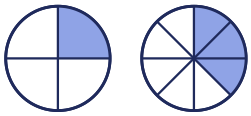
10 $\frac{6}{8} = \frac{3}{\square}$

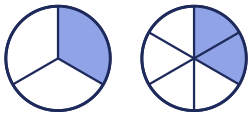
C ★ Equivalent or not?

3 marks

Is the same amount shaded in both circles? Write ✓ or ×.

11  ☐

12  ☐

13  ☐

Score _____ **/ 13**

Equivalent Fractions: Answers

A · shade and match

1. 1/2 = **2**/4 (shade 2 of the 4 parts)
2. 1/3 = **2**/6 (shade 2 of the 6 parts)
3. 1/4 = **2**/8 (shade 2 of the 8 parts)
4. 2/3 = **4**/6 (shade 4 of the 6 parts)

B · missing numbers

5. 1/2 = **3**/6
6. 1/3 = **3**/9
7. 2/5 = **4**/10
8. 3/4 = 9/**12**
9. 2/3 = **8**/12
10. 6/8 = 3/**4**

C · equivalent or not?

11. 1/2 and 2/4: ✓
12. 1/4 and 3/8: ×
13. 1/3 and 2/6: ✓

Question 10 goes the other way: 6/8 = 3/4, dividing the top and the bottom by 2 (simplifying). Question 12: 3/8 is more than a quarter, which is 2/8. The most common mistake is adding the same number to the top and the bottom (1/2 → 2/3). That changes the amount; only multiplying or dividing keeps it the same.