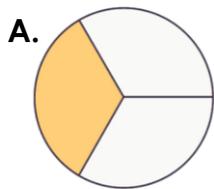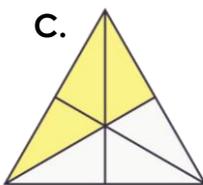# Equivalent Fractions

1. Tick the shapes that have $\frac{1}{3}$ shaded.

A. ☐

B. ☐

C. ☐

D. ☐

E. ☐

VF
HW/Ext

2. Complete the sequence of equivalent fractions. Use the diagram to help you.

A.

$$\frac{1}{4} = \frac{2}{\square} = \frac{\square}{12} = \frac{4}{\square}$$

B.

$$\frac{1}{5} = \frac{\square}{10} = \frac{3}{\square} = \frac{\square}{20}$$

x ?

$$\frac{\square}{\square} = \frac{\square}{\square}$$

x ?

VF
HW/Ext

3. Ben shades these shapes. He says,

A.

B.

> One-half of each shape is shaded.

Explain his mistake.

RPS
HW/Ext

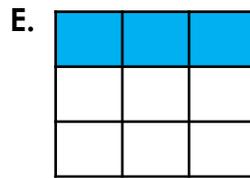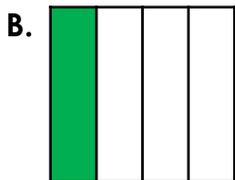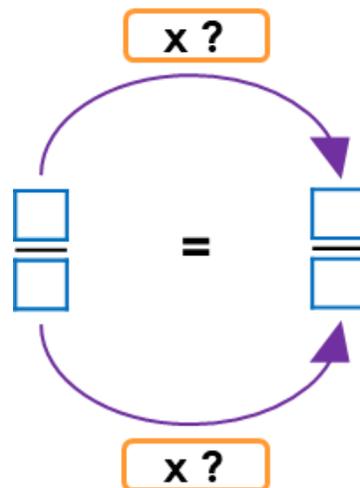**Homework/Extension – Equivalent Fractions – Year 5 Developing**

Equivalent Fractions

4. Tick the shapes that have $\frac{3}{4}$ shaded.

A.

C.

E.

B.

D.

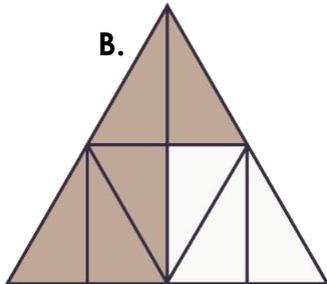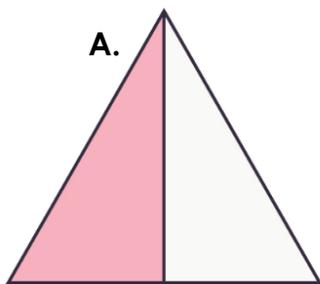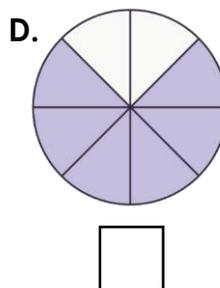**5. Complete the sequence of equivalent fractions. Use the diagram to help you.**

A.

$$\frac{4}{6} = \frac{8}{\square} = \frac{\square}{18} = \frac{16}{\square}$$

B.

$$\frac{3}{8} = \frac{\square}{16} = \frac{9}{\square} = \frac{\square}{32}$$

x ?

$$\frac{\square}{\square} = \frac{\square}{\square}$$

x ?

6. Jasmin shades this shape. She says,

> Two-fifths of my shape is shaded.

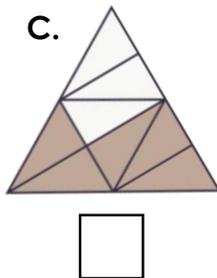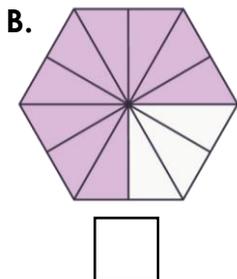**Explain her mistake.**

Equivalent Fractions

7. Tick the shapes that have $\frac{3}{5}$ shaded.

A.

C.

E.

B.

D.

8. Complete the sets of equivalent fractions.

A.

$$\frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{16}} = \frac{\boxed{21}}{\boxed{24}} = \frac{\boxed{}}{\boxed{40}} = \frac{\boxed{63}}{\boxed{}}$$

B.

$$\frac{\boxed{}}{\boxed{}} = \frac{\boxed{8}}{\boxed{}} = \frac{\boxed{12}}{\boxed{27}} = \frac{\boxed{28}}{\boxed{}} = \frac{\boxed{}}{\boxed{81}}$$

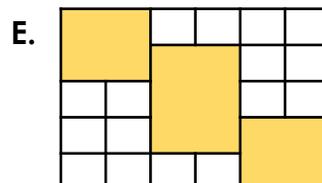## 9. Carl shades this shape. He says,

Five-sixths of my shape is shaded.

Explain his mistake.

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Homework/Extension – Equivalent Fractions – Year 5 Greater Depth

Developing

1. A, D and E

2. A. $\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16}$ B. $\frac{1}{5} = \frac{2}{10} = \frac{3}{15} = \frac{4}{20}$

3. Ben has shaded 5 out of 8 parts on triangle B. He needed to shade 4 out of 8 squares as $\frac{4}{8} = \frac{1}{2}$. Triangle A correctly has one half shaded.

Expected

4. A, B, D and E

5. A. $\frac{4}{6} = \frac{8}{12} = \frac{12}{18} = \frac{16}{24}$ B. $\frac{3}{8} = \frac{6}{16} = \frac{9}{24} = \frac{12}{32}$

6. Jasmin has shaded 2 squares instead of 2 columns. She has shaded 2 out of 20 squares which is not equivalent to $\frac{2}{5}$. She needed to shade 8 out of 20 squares which is equivalent to $\frac{2}{5}$.

Greater Depth

7. A, B and D

8. A. $\frac{7}{8} = \frac{14}{16} = \frac{21}{24} = \frac{35}{40} = \frac{63}{72}$ B. $\frac{4}{9} = \frac{8}{18} = \frac{12}{27} = \frac{28}{63} = \frac{36}{81}$

9. Carl has shaded 20 out of 30 squares which is equivalent to $\frac{4}{6}$ or $\frac{2}{3}$. He needed to shade 25 out of 30 squares which is equivalent to $\frac{5}{6}$.

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