**Name** _____ **Date** _____

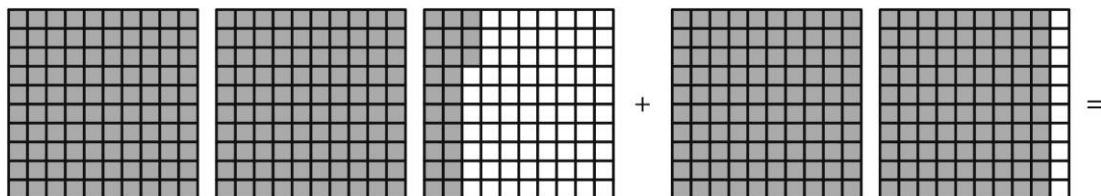# End of unit 8 test

1  Calculate.

   a  $\dfrac{1}{5} + \dfrac{3}{4}$          b  $\dfrac{5}{8} + \dfrac{2}{3}$          c  $\dfrac{7}{4} + \dfrac{5}{3}$

   _____          _____          _____

2  The decimal grids represent a calculation.



   Write the calculation and work out the answer.

   _____ + _____ = _____

3  Calculate.

   a  $\dfrac{2}{3} - \dfrac{1}{6}$          b  $\dfrac{4}{3} - \dfrac{3}{8}$          c  $\dfrac{8}{5} - \dfrac{5}{4}$

   _____          _____          _____

4  Which two numbers add to make 0.12?

   0.155          0.5          0.05          0.7          0.07          0.02

   _____

5  The distance from a factory to a warehouse is 132.67 km.

   The distance from the warehouse to a shop is 18.5 km.

   A lorry travels from the factory to the warehouse and then from the warehouse to the shop.

How far does the lorry travel?

_____ km

6   Haibo has a collection of picture cards.

$\frac{1}{4}$ of her cards are animals.

$\frac{3}{5}$ of her cards are birds.

She says that $\frac{4}{9}$ of her cards are animals or birds.

What mistake has Haibo made?

_____

7   Write the missing number.

$$\frac{5}{8} + \frac{\square}{3} = \frac{31}{24}$$

8   Look at the picture of five kittens.



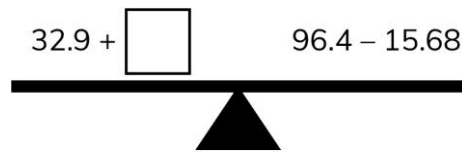| 0.305 kg | 0.375 kg | 0.41 kg | 0.26 kg | 0.255 kg |

What is the difference in mass between the heaviest kitten and the lightest kitten?

_____ kg

9 Each side of a number balance has the same answer.

Work out the missing number.

$32.9 +$ ☐          $96.4 - 15.68$

_____

10 a Write two fractions with a difference of $\frac{1}{2}$.

Find fractions that do not have a denominator of 2.

_____ and _____

b Write two fractions with a total of $\frac{6}{5}$.

Find fractions that do not have a denominator of 5.

_____ and _____