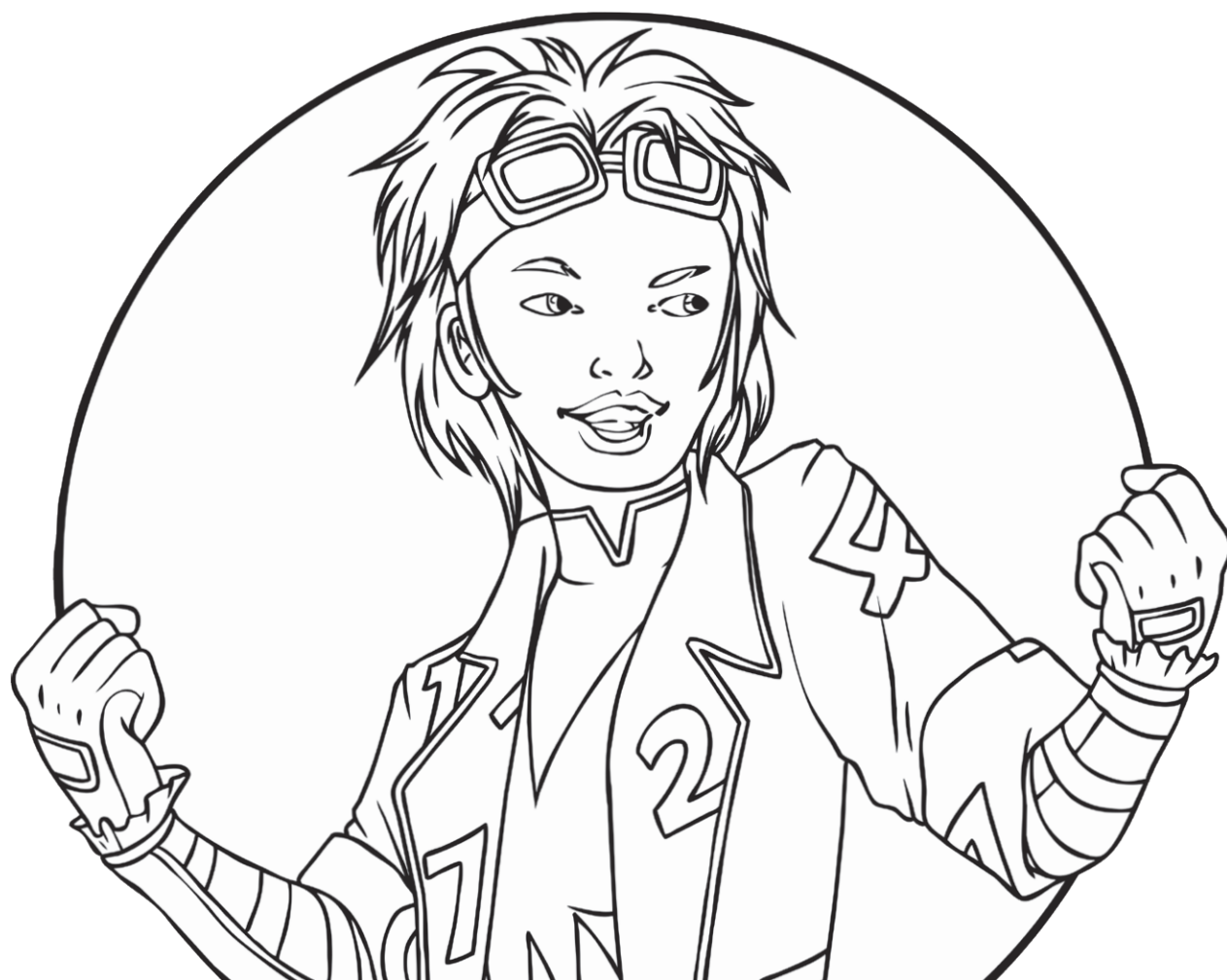


Decimal Number Bonds

Maths Activity Booklet Answers



Name: _____

Bar Diagrams Answers

Complete the decimal number bonds facts shown by each bar diagram. The first one is done for you.

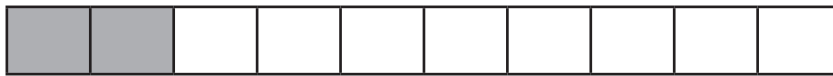


$$0.1 + 0.9 = 1$$

$$0.9 + 0.1 = 1$$

$$1 - 0.1 = 0.9$$

$$1 - 0.9 = 0.1$$



$$0.2 + 0.8 = 1$$

$$0.8 + 0.2 = 1$$

$$1 - 0.2 = 0.8$$

$$1 - 0.8 = 0.2$$



$$0.3 + 0.7 = 1$$

$$0.7 + 0.3 = 1$$

$$1 - 0.3 = 0.7$$

$$1 - 0.7 = 0.3$$



$$0.4 + 0.6 = 1$$

$$0.6 + 0.4 = 1$$

$$1 - 0.4 = 0.6$$

$$1 - 0.6 = 0.4$$

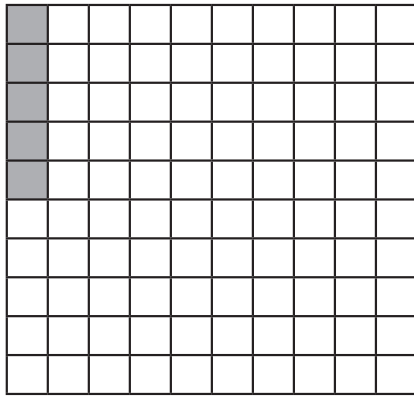


$$0.5 + 0.5 = 1$$

$$1 - 0.5 = 0.5$$

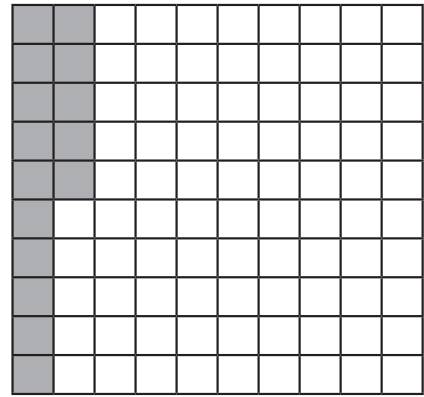
Block Diagrams Answers

Complete the decimal number bonds facts shown by each block diagram. The first one is done for you.



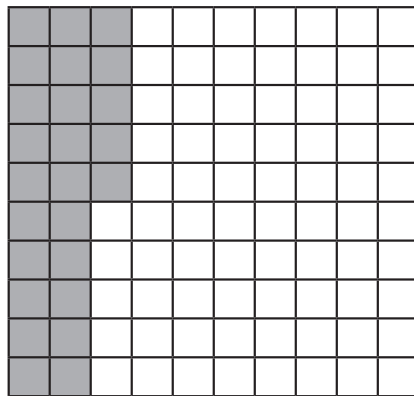
$$0.05 + 0.95 = 1 \quad 0.95 + 0.05 = 1$$

$$1 - 0.05 = 0.95 \quad 1 - 0.95 = 0.05$$



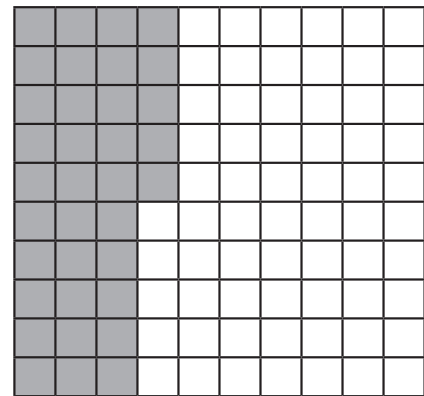
$$0.15 + 0.85 = 1 \quad 0.85 + 0.15 = 1$$

$$1 - 0.15 = 0.85 \quad 1 - 0.85 = 0.15$$



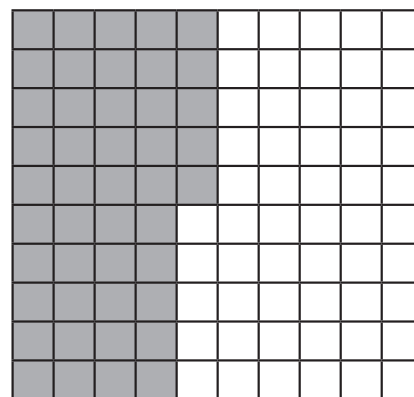
$$0.25 + 0.75 = 1 \quad 0.75 + 0.25 = 1$$

$$1 - 0.25 = 0.75 \quad 1 - 0.75 = 0.25$$



$$0.35 + 0.65 = 1 \quad 0.65 + 0.35 = 1$$

$$1 - 0.35 = 0.65 \quad 1 - 0.65 = 0.35$$



$$0.45 + 0.55 = 1 \quad 0.55 + 0.45 = 1$$

$$1 - 0.45 = 0.55 \quad 1 - 0.55 = 0.45$$

Seeing Stars Answers

Write the missing number to make each star equal to 1.

$$0.1 + \mathbf{0.9} = 1$$

$$0.35 + \mathbf{0.65} = 1$$

$$0.55 + \mathbf{0.45} = 1$$

$$0.2 + \mathbf{0.8} = 1$$

$$0.25 + \mathbf{0.75} = 1$$

$$0.45 + \mathbf{0.55} = 1$$

$$0.4 + \mathbf{0.6} = 1$$

$$0.3 + \mathbf{0.7} = 1$$

$$0.15 + \mathbf{0.85} = 1$$

$$0.5 + \mathbf{0.5} = 1$$

1

Superhero Missing Numbers Answers

Can you find the missing numbers?

$$0.15 + 0.85 = 1$$

$$1 - 0.4 = 0.6$$

$$0.5 + 0.5 = 1$$

$$1 - 0.55 = 0.45$$

$$1 = 0.8 + 0.2$$

$$1 - 0.65 = 0.35$$

$$1 = 0.75 + 0.25$$

$$1 - 0.45 = 0.55$$

Bar Model Word Problems Answers

1. A comic book costs £0.45 and I pay with a £1 coin. How much change do I get?

£1	
£0.45	£0.55

2. A length of wood measures 1m. I saw a 0.3m piece off. What is the length of the piece of wood now?

1m	
0.3m	0.7m

3. The distance of my bike ride is 1km and I have travelled 0.65km so far. How much further do I have left to cycle?

1km	
0.65km	0.35km

4. A recipe for a huge chocolate pudding uses 1kg of chocolate. I add white chocolate first, then I add 0.8kg of dark chocolate. How much white chocolate did I use?

1kg	
0.2kg	0.8kg

5. Two parcels weigh 1kg in total. One parcel weighs 0.75kg. What is the mass of the other parcel?

1kg	
0.75kg	0.25kg

6. A recipe for a fruit smoothie uses 1 litre of juice. I add my apple juice first, then I add 0.4 litres of pineapple juice. How much apple juice did I use?

1 litre	
0.6 litres	0.4 litres

Snakes and Ladders Answers

$$0.1 + 0.9 = 1$$

$$0.2 + 0.8 = 1$$

$$0.3 + 0.7 = 1$$

$$0.05 + 0.95 = 1$$

$$0.15 + 0.85 = 1$$

$$0.25 + 0.75 = 1$$

$$1 = 0.6 + 0.4$$

$$1 = 0.5 + 0.5$$

$$1 = 0.4 + 0.6$$

$$1 = 0.65 + 0.35$$

$$1 = 0.55 + 0.45$$

$$1 = 0.45 + 0.55$$

$$1 - 0.3 = 0.7$$

$$1 - 0.2 = 0.8$$

$$1 - 0.1 = 0.9$$

$$1 - 0.35 = 0.65$$

$$1 - 0.25 = 0.75$$

$$1 - 0.15 = 0.85$$

$$0.54 + 0.46 = 1$$

$$0.66 + 0.34 = 1$$

$$0.79 + 0.21 = 1$$

$$0.83 + 0.17 = 1$$

$$0.92 + 0.08 = 1$$

Speed Challenge Answers

See how long it takes you to complete all of these or give yourself a set amount of time (say 5 minutes) and see how many you can do.

$0.05 + \mathbf{0.95} = 1$	$1 - \mathbf{0.75} = 0.25$	$1 - \mathbf{0.35} = 0.65$	$0.25 + \mathbf{0.75} = 1$	$1 - \mathbf{0.9} = 0.1$
$1 - \mathbf{0.45} = 0.55$	$0.35 + \mathbf{0.65} = 1$	$0.95 + \mathbf{0.05} = 1$	$1 - \mathbf{0.6} = 0.4$	$0.5 + \mathbf{0.5} = 1$
$0.55 + \mathbf{0.45} = 1$	$1 - \mathbf{0.1} = 0.9$	$0.1 + \mathbf{0.9} = 1$	$0.7 + \mathbf{0.3} = 1$	$1 - \mathbf{0.05} = 0.95$
$0.8 + \mathbf{0.2} = 1$	$1 - \mathbf{0.8} = 0.2$	$0.9 + \mathbf{0.1} = 1$	$0.45 + \mathbf{0.55} = 1$	$1 - \mathbf{0.95} = 0.05$
$0.3 + \mathbf{0.7} = 1$	$1 - \mathbf{0.85} = 0.15$	$0.85 + \mathbf{0.15} = 1$	$1 - \mathbf{0.55} = 0.45$	$1 - \mathbf{0.7} = 0.3$
$1 - \mathbf{0.65} = 0.35$	$0.6 + \mathbf{0.4} = 1$	$1 - \mathbf{0.2} = 0.8$	$0.75 + \mathbf{0.25} = 1$	$0.4 + \mathbf{0.6} = 1$
$1 - \mathbf{0.4} = 0.6$	$0.2 + \mathbf{0.8} = 1$	$1 - \mathbf{0.3} = 0.7$	$0.15 + \mathbf{0.85} = 1$	$1 - \mathbf{0.15} = 0.85$
$1 - \mathbf{0.5} = 0.5$	$0.65 + \mathbf{0.35} = 1$	$1 - \mathbf{0.25} = 0.75$	$1 - \mathbf{0.75} = 0.25$	$1 - \mathbf{0.7} = 0.3$

Potion Investigation Answers

The six possible potion combinations that total 1 litre are:

1. nettle soup (0.15 litre)
briny broth (0.35 litre)
slug slime (0.5 litre)
2. nettle soup (0.15 litre)
essence of nightshade (0.4 litre)
snake oil (0.45 litre)
3. dragon's blood (0.2 litre)
dawn dew (0.3 litre)
slug slime (0.5 litre)
4. dragon's blood (0.2 litre)
briny broth (0.35 litre)
snake oil (0.45 litre)
5. teachers' tears (0.25 litre)
dawn dew (0.3 litre)
snake oil (0.45 litre)
6. teachers' tears (0.25 litre)
briny broth (0.35 litre)
essence of nightshade (0.4 litre)