



Colin and Coco's Daily Maths Workout



Workout 2.13

Answers

Keep-uppI (Term 4 & 5)



KPIs for Term 4 & 5

Recognise and find one third

Recognise and find three quarters

Tell the time to quarter to/past and 5 minute intervals

Calculate change

Combine coins to make amounts

Construct and interpret pictograms using 2s, 5s and 10s

Recall factor-factor-product relationships for 2, 5 and 10 multiplication



Fractions Workout

Workout A

Use bar models to help to calculate:

$$\frac{1}{3} \text{ of } 6 = \boxed{2} \quad \frac{3}{4} \text{ of } 8 = \boxed{6} \quad \frac{1}{3} \text{ of } 21 = \boxed{7} \quad \frac{3}{4} \text{ of } 16 = \boxed{12}$$

$$\frac{1}{3} \text{ of } 12 = \boxed{4} \quad \frac{3}{4} \text{ of } 12 = \boxed{9} \quad \frac{1}{3} \text{ of } 33 = \boxed{11} \quad \frac{3}{4} \text{ of } 20 = \boxed{15}$$

$$\frac{1}{3} \text{ of } 30 = \boxed{10} \quad \frac{3}{4} \text{ of } 24 = \boxed{18} \quad \frac{1}{3} \text{ of } 27 = \boxed{9} \quad \frac{3}{4} \text{ of } 44 = \boxed{33}$$

$$\frac{1}{3} \text{ of } 15 = \boxed{5} \quad \frac{3}{4} \text{ of } 40 = \boxed{30} \quad \frac{1}{3} \text{ of } 18 = \boxed{6} \quad \frac{3}{4} \text{ of } 32 = \boxed{24}$$

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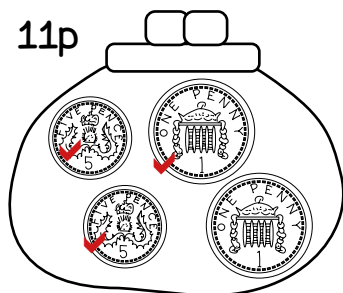
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Money Workout

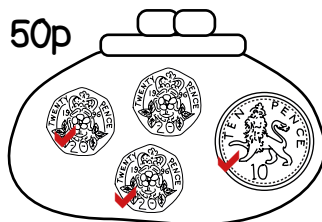
Workout B

Tick the coins needed to make the amount shown.

11p



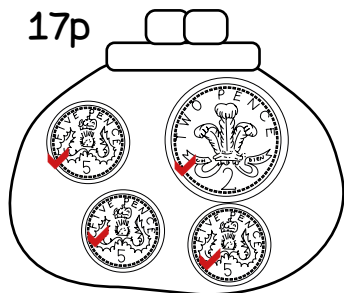
50p



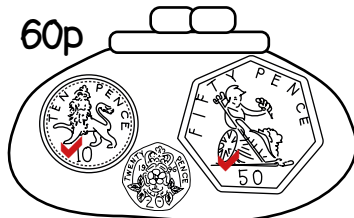
Draw 4 coins to make 22p

10p, 10p,
1p, 1p

17p



60p



Draw 4 coins to make 76p

50p, 20p,
5p, 1p

Time Workout

Workout C

Write the time as minutes to or past the hour



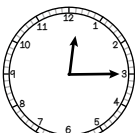
twenty past eight



ten to six



quarter to one



quarter past
twelve



ten to three



twenty-five past
nine

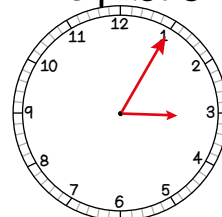


five past ten

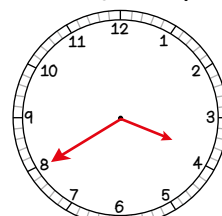


twenty-five to
two

Draw hands to show:
5 past 3



20 to 4





Combining Coins Game

Workout D

You need:

Target cards (on the next page.)

Coins template

1-6 dice

To play:

Shuffle the Set A cards and put them in a deck, face down. Turn over a card to get the target amount.

Each player throws the dice three times to get three numbers each.

Each player uses their numbers to represent the number of coins they choose to get as close to the target as they can.

For example:

Target 32p

Throw 4, 2 and 5

	1p	2p	5p	10p	20p	50p	Total
Coins	2	5	4				
Amount	2p	10p	20p				32p

Score 2 points for getting the target amount exactly or 1 point for being within 2 pence of the target.

To win:

The winner is the first player to score 10 points.

Coins Template

	1p	2p	5p	10p	20p	50p	Total
Coins							
Amount							



Target Cards

18p

21p

25p

29p

32p

38p

46p

55p

58p

64p

67p

72p

75p

87p

93p

Make some of your own target cards.



Missing Number Workout

Workout E

Put digits in the empty boxes so that the calculations are correct.

Complete them in several different ways, if possible.

Possible solution

$$\boxed{2} \times 10 = 5 \times \boxed{4}$$

$$1 \boxed{6} \div 2 = \boxed{8}$$

$$\boxed{3} \times 5 = \boxed{1} \boxed{5}$$

$$\boxed{7} 0 \div 7 = 1 \boxed{0}$$

Which ones can only be completed in one way?
Are there any boxes that could have any of the digits in them?

Now complete it using the digits 0, 1, 2, 3, 4, 5, 6, 7 and 8 once each.



Fraction Challenge

Workout F

$$\begin{array}{ccc} & \frac{1}{3} \text{ of } 12 = 4 & \\ \swarrow & | & \searrow \\ \text{fraction} & \text{whole} & \text{answer} \end{array}$$

Your challenge is to change the fraction and the whole but keep the answer the same.

Do it using $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{3}{4}$

If you make the fraction larger, what do you need to do to the whole?

If you make the fraction smaller, what do you need to do to the whole?

Now do it with an answer of 6

Fill the grid below with questions about fraction of a whole, so that the answers get smaller in both directions.

The answer gets smaller

→

The answer gets smaller

↓



Word Problem Workout

Workout G

1. The pictogram shows favourite sandwich fillings.

 = 2 people

ham	 
egg	   
cheese	  
tomato	

a. How many people chose tomato?

b. How many people chose egg?

c. How many more people chose cheese than ham?

d. How many people were asked in total?

2, 8, 2, 20

2. The pictogram shows children's favourite type of film.

 = 10 children

Comedy	   
Dinosaur	 
Nature	  
Hero	    

a. How many children chose Dinosaur films?

b. How many children chose Nature films?

c. How many more children chose Hero films than Comedy films?

d. How many children were asked in total?

20, 25, 15, 130

3. Colin has saved £100. He goes shopping and spends £72
How much does he have left?

£28

4. Coco buys a pen for 83p. She pays with a £1 coin.
How much change does she get?
What coins might she get for her change?

17p
10p, 5p, 2p

6. KeePuppI buys some crisps for 64p. He pays with a £1 coin.
How much change does he get?
What coins might he get for his change?

36p
20p, 10p, 5p, 1p

Create your own problems using money and change.

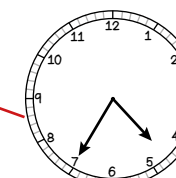
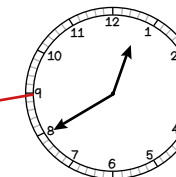
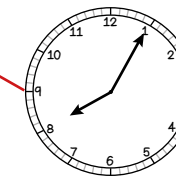
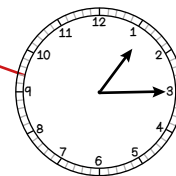
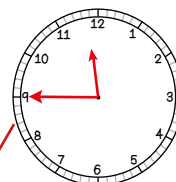
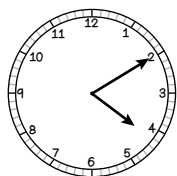
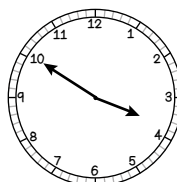
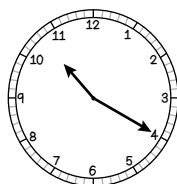
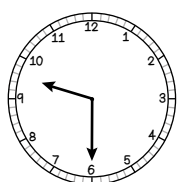


Matching Workout

Match the amount spent to the change you would get from £1
Fill in the missing buddies.

Spent		Change
30p		70p
80p		60p
40p		20p
25p		9p
46p		54p
91p		17p
83p		42p
14p		75p
58p		86p

Match the clocks to the correct time.
Find the missing buddies.



quarter past 1
half past 9
5 past 8
10 past 4
20 past 10
quarter to 12
10 to 4
20 to 1
25 to 5

Create your own Matching Workout.