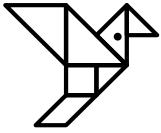


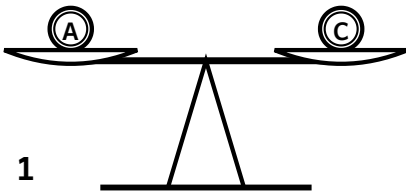


Learn a new puzzle

Weighing Puzzles

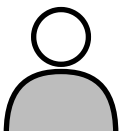


One coin is fake and lighter. The heavy side goes down.



Which coin is fake? _____

- 1 Level scale: every coin on it is real.
- 2 A lighter fake makes its side go UP.
- 3 Cross out every coin you know is real.



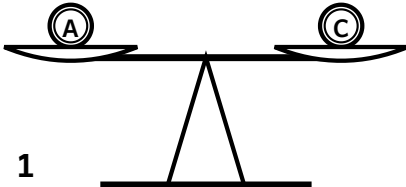
Ask: which side went up?



1 Weighing Puzzles One coin is fake and lighter. The heavy side goes down.



A B C



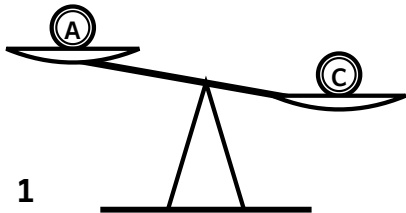
1

Which coin is fake? _____

2 Weighing Puzzles One coin is fake and lighter. The heavy side goes down.



A B C



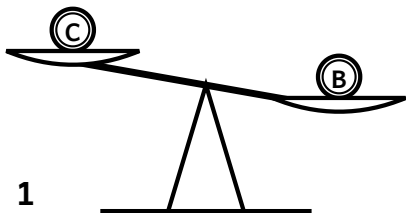
1

Which coin is fake? _____

3 Weighing Puzzles One coin is fake and lighter. The heavy side goes down.



A B C



1

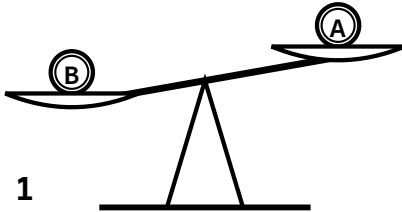
Which coin is fake? _____



4 Weighing Puzzles One coin is fake and lighter. The heavy side goes down.



(A) (B) (C)



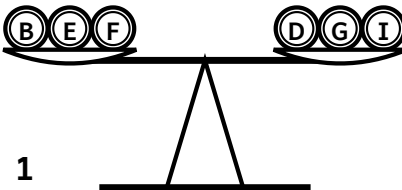
1

Which coin is fake? _____

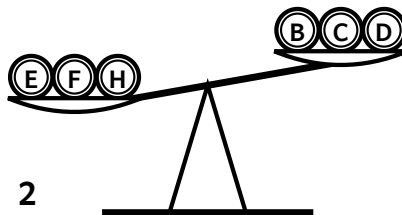
5 Weighing Puzzles One coin is fake and lighter. The heavy side goes down.



(A) (B) (C) (D) (E) (F) (G) (H) (I)



1



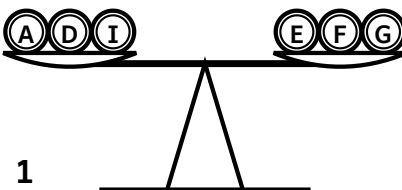
2

Which coin is fake? _____

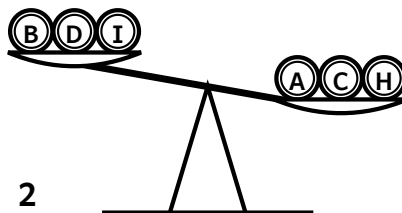
6 Weighing Puzzles One coin is fake and lighter. The heavy side goes down.



(A) (B) (C) (D) (E) (F) (G) (H) (I)



1



2

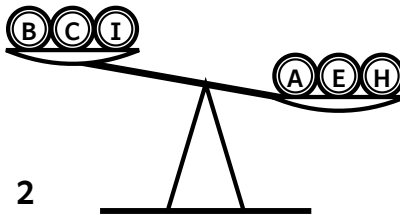
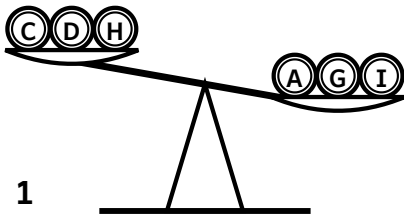
Which coin is fake? _____



7 Weighing Puzzles One coin is fake and lighter. The heavy side goes down.



(A) (B) (C) (D) (E) (F) (G) (H) (I)

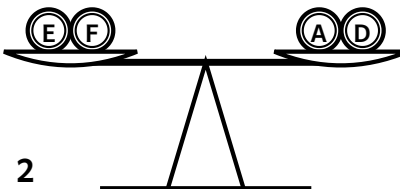
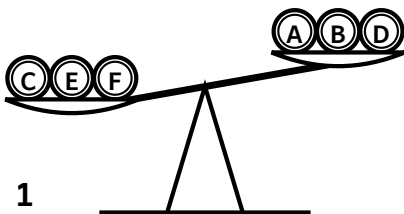


Which coin is fake? _____

8 Weighing Puzzles One coin is fake and lighter. The heavy side goes down.



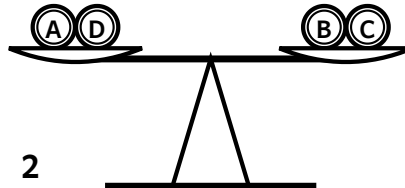
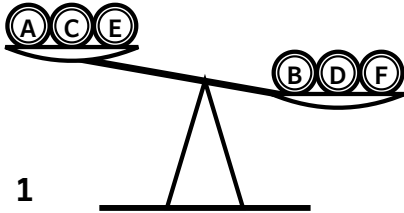
(A) (B) (C) (D) (E) (F)



Which coin is fake? _____

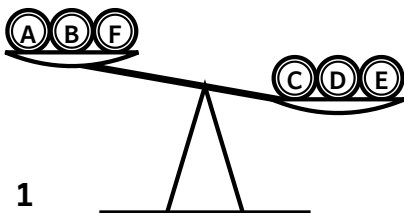


9 Weighing Puzzles One coin is fake and lighter. The heavy side goes down.

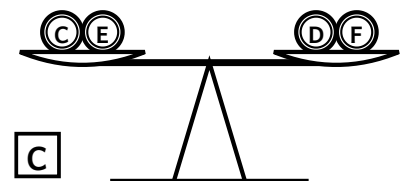
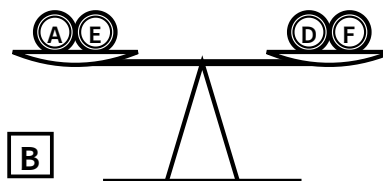
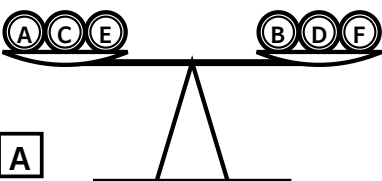


Which coin is fake? _____

10 Weighing Puzzles One coin is fake and lighter. The heavy side goes down. Pick the next weighing that finds the fake for sure, whatever the scale shows.



Which next weighing is sure to find the fake? Choice _____





Answers For grown-ups. Cut off or keep this page aside until the puzzles are done.

Learn · Weighing Puzzles

Coin B

#1

Coin B

Scale 1 is level, so its coins are real.
Fake: coin B (lighter).

#2

Coin A

Scale 1 tips. Fake: coin A (lighter).

#3

Coin C

Scale 1 tips. Fake: coin C (lighter).

#4

Coin A

Scale 1 tips. Fake: coin A (lighter).

#5

Coin C

Scale 1 is level, so its coins are real;
scale 2 tips. Fake: coin C (lighter).

#6

Coin B

Scale 1 is level, so its coins are real;
scale 2 tips. Fake: coin B (lighter).

#7

Coin C

Scale 1 tips; scale 2 tips. Fake: coin C
(lighter).

#8

Coin B

Scale 1 tips, so the fake is on the side
that went up: coin A, B or D. Scale 2 is
level, so its coins are real. Fake: coin B
(lighter).

#9

Coin E

Scale 1 tips, so the fake is on the side
that went up: coin A, C or E. Scale 2 is
level, so its coins are real. Fake: coin E
(lighter).

#10

Choice B

After scale 1, it could be coin A, B or
F. Choice B is sure: if it is level, coin B;
if the left side goes down, coin F; if the
right side goes down, coin A. Choice A
is not: if the left side goes down, it
could still be coin B or F. Choice C is
not: if it is level, it could still be coin A
or B.