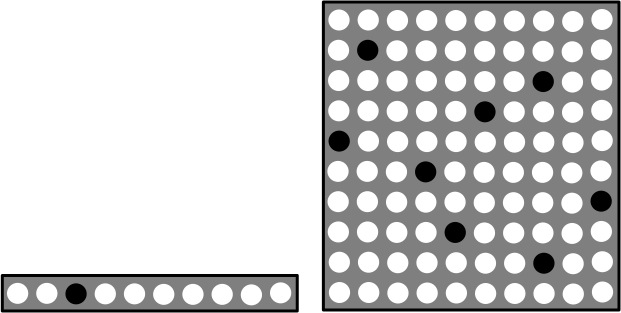
**Ratio Bias Subtest**

Items are presented as a block.

1. The Marble Game:

Assume that you are presented with two trays of black and white marbles (pictured below). The small tray contains **10** marbles. The large tray contains **100** marbles. The marbles inside each tray will be randomly mixed up, and you must draw out a single marble from one of the trays without looking. If you draw a black marble you win $5.



(1 black and 9 white) (8 black and 92 white)

In a real situation, which tray would you prefer to select a marble from?

\*a. Strongly prefer the small tray

\*b. Moderately prefer the small tray

\*c. Slightly prefer the small tray

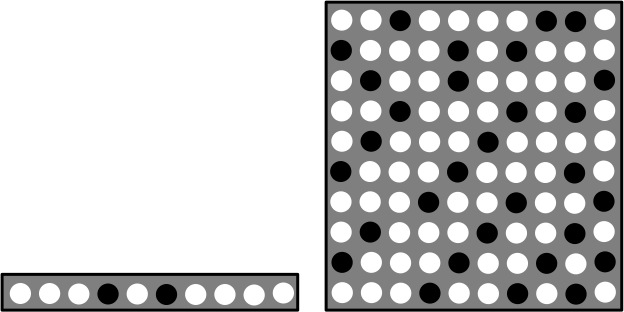
d. Slightly prefer the large tray

e. Moderately prefer the large tray

f. Strongly prefer the large tray

2. The Marble Game: [Filler item]

Assume that you are presented with two trays of black and white marbles (pictured below). The small tray contains **10** marbles. The large tray contains **100** marbles. The marbles inside each tray will be randomly mixed up, and you must draw out a single marble from one of the trays without looking. If you draw a black marble you win $5.



(2 black and 8 white) (30 black and 70 white)

In a real situation, which tray would you prefer to select a marble from?

a. Strongly prefer the small tray

b. Moderately prefer the small tray

c. Slightly prefer the small tray

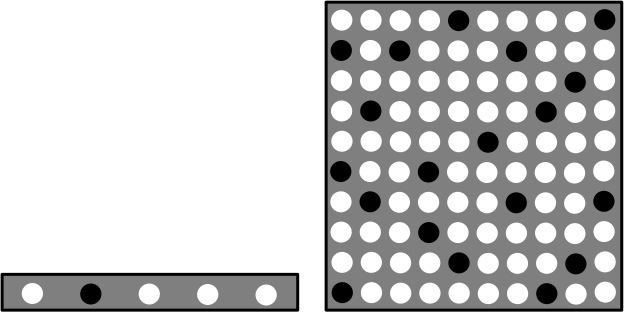
\*d. Slightly prefer the large tray

\*e. Moderately prefer the large tray

\*f. Strongly prefer the large tray

3. The Marble Game:

Assume that you are presented with two trays of black and white marbles (pictured below). The small tray contains **5** marbles. The large tray contains **100** marbles. The marbles inside each tray will be randomly mixed up, and you must draw out a single marble from one of the trays without looking. If you draw a black marble you win $5.



(1 black and 4 white) (19 black and 81 white)

In a real situation, which tray would you prefer to select a marble from?

\*a. Strongly prefer the small tray

\*b. Moderately prefer the small tray

\*c. Slightly prefer the small tray

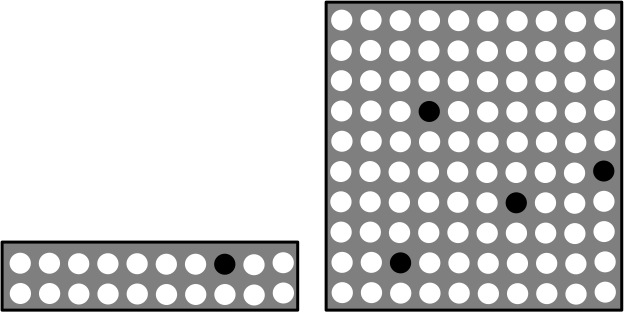
d. Slightly prefer the large tray

e. Moderately prefer the large tray

f. Strongly prefer the large tray

4. The Marble Game:

Assume that you are presented with two trays of black and white marbles (pictured below). The small tray contains **20** marbles. The large tray contains **100** marbles. The marbles inside each tray will be randomly mixed up, and you must draw out a single marble from one of the trays without looking. If you draw a black marble you win $5.



(1 black and 19 white) (4 black and 96 white)

In a real situation, which tray would you prefer to select a marble from?

\*a. Strongly prefer the small tray

\*b. Moderately prefer the small tray

\*c. Slightly prefer the small tray

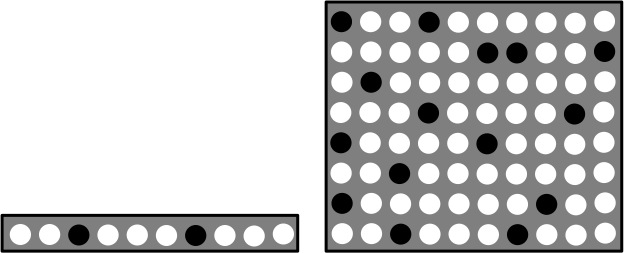
d. Slightly prefer the large tray

e. Moderately prefer the large tray

f. Strongly prefer the large tray

5. The Marble Game:

Assume that you are presented with two trays of black and white marbles (pictured below). The small tray contains **10** marbles. The large tray contains **80** marbles. The marbles inside each tray will be randomly mixed up, and you must draw out a single marble from one of the trays without looking. If you draw a black marble you win $5.



(2 black and 8 white) (15 black and 65 white)

In a real situation, which tray would you prefer to select a marble from?

\*a. Strongly prefer the small tray

\*b. Moderately prefer the small tray

\*c. Slightly prefer the small tray

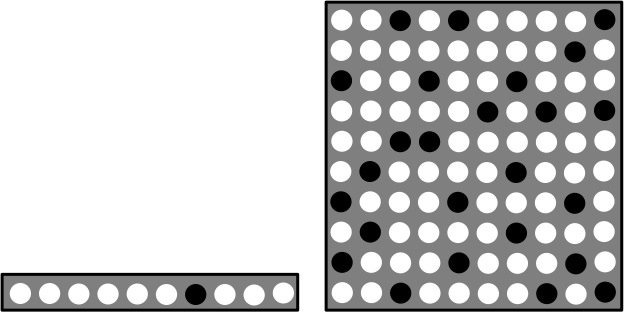
d. Slightly prefer the large tray

e. Moderately prefer the large tray

f. Strongly prefer the large tray

6. The Marble Game: [Filler item]

Assume that you are presented with two trays of black and white marbles (pictured below). The small tray contains **10** marbles. The large tray contains **100** marbles. The marbles inside each tray will be randomly mixed up, and you must draw out a single marble from one of the trays without looking. If you draw a black marble you win $5.



(1 black and 9 white) (25 black and 75 white)

In a real situation, which tray would you prefer to select a marble from?

a. Strongly prefer the small tray

b. Moderately prefer the small tray

c. Slightly prefer the small tray

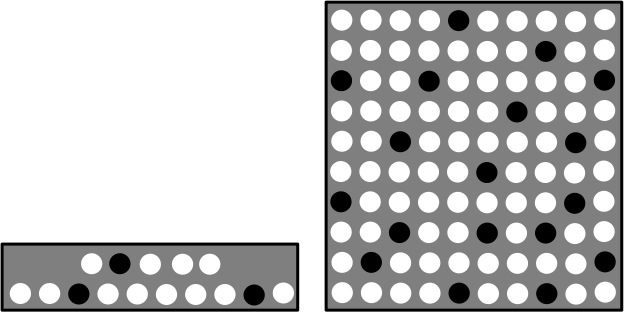
\*d. Slightly prefer the large tray

\*e. Moderately prefer the large tray

\*f. Strongly prefer the large tray

7. The Marble Game:

Assume that you are presented with two trays of black and white marbles (pictured below). The small tray contains **15** marbles. The large tray contains **100** marbles. The marbles inside each tray will be randomly mixed up, and you must draw out a single marble from one of the trays without looking. If you draw a black marble you win $5.



(3 black and 12 white) (18 black and 82 white)

In a real situation, which tray would you prefer to select a marble from?

\*a. Strongly prefer the small tray

\*b. Moderately prefer the small tray

\*c. Slightly prefer the small tray

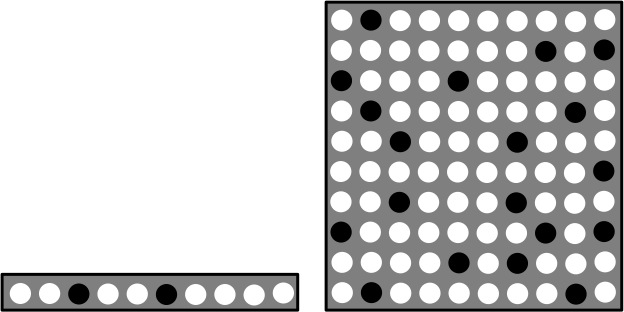
d. Slightly prefer the large tray

e. Moderately prefer the large tray

f. Strongly prefer the large tray

8. The Marble Game:

Assume that you are presented with two trays of black and white marbles (pictured below). The small tray contains **10** marbles. The large tray contains **100** marbles. The marbles inside each tray will be randomly mixed up, and you must draw out a single marble from one of the trays without looking. If you draw a black marble you win $5.



(2 black and 8 white) (19 black and 81 white)

In a real situation, which tray would you prefer to select a marble from?

\*a. Strongly prefer the small tray

\*b. Moderately prefer the small tray

\*c. Slightly prefer the small tray

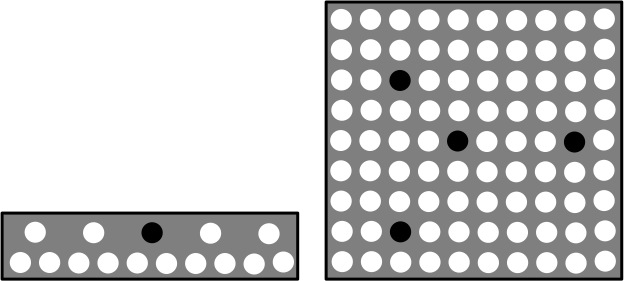
d. Slightly prefer the large tray

e. Moderately prefer the large tray

f. Strongly prefer the large tray

9. The Marble Game:

Assume that you are presented with two trays of black and white marbles (pictured below). The small tray contains **15** marbles. The large tray contains **90** marbles. The marbles inside each tray will be randomly mixed up, and you must draw out a single marble from one of the trays without looking. If you draw a black marble you win $5.



(1 black and 14 white) (4 black and 86 white)

In a real situation, which tray would you prefer to select a marble from?

\*a. Strongly prefer the small tray

\*b. Moderately prefer the small tray

\*c. Slightly prefer the small tray

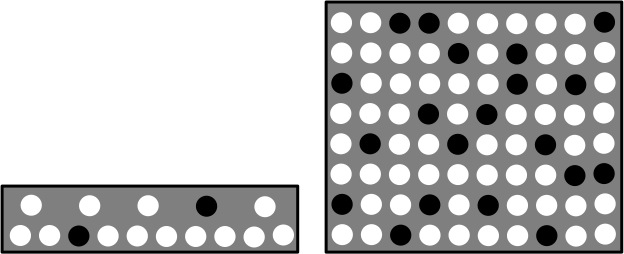
d. Slightly prefer the large tray

e. Moderately prefer the large tray

f. Strongly prefer the large tray

10. The Marble Game: [Filler item]

Assume that you are presented with two trays of black and white marbles (pictured below). The small tray contains **15** marbles. The large tray contains **80** marbles. The marbles inside each tray will be randomly mixed up, and you must draw out a single marble from one of the trays without looking. If you draw a black marble you win $5.



(2 black and 13 white) (20 black and 60 white)

In a real situation, which tray would you prefer to select a marble from?

a. Strongly prefer the small tray

b. Moderately prefer the small tray

c. Slightly prefer the small tray

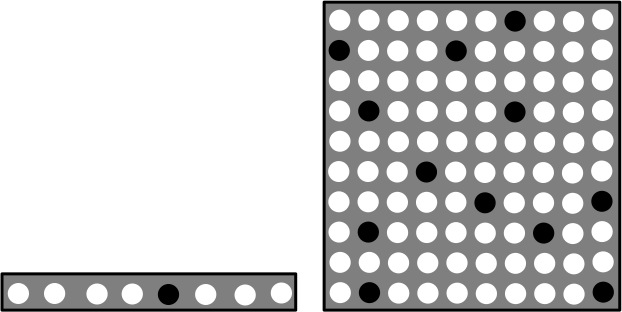
\*d. Slightly prefer the large tray

\*e. Moderately prefer the large tray

\*f. Strongly prefer the large tray

11. The Marble Game:

Assume that you are presented with two trays of black and white marbles (pictured below). The small tray contains **8** marbles. The large tray contains **100** marbles. The marbles inside each tray will be randomly mixed up, and you must draw out a single marble from one of the trays without looking. If you draw a black marble you win $5.



(1 black and 7 white) (12 black and 88 white)

In a real situation, which tray would you prefer to select a marble from?

\*a. Strongly prefer the small tray

\*b. Moderately prefer the small tray

\*c. Slightly prefer the small tray

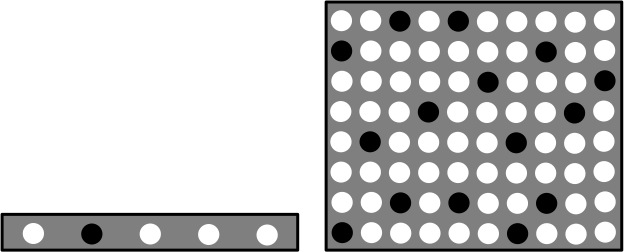
d. Slightly prefer the large tray

e. Moderately prefer the large tray

f. Strongly prefer the large tray

12. The Marble Game:

Assume that you are presented with two trays of black and white marbles (pictured below). The small tray contains **5** marbles. The large tray contains **80** marbles. The marbles inside each tray will be randomly mixed up, and you must draw out a single marble from one of the trays without looking. If you draw a black marble you win $5.



(1 black and 4 white) (15 black and 65 white)

In a real situation, which tray would you prefer to select a marble from?

\*a. Strongly prefer the small tray

\*b. Moderately prefer the small tray

\*c. Slightly prefer the small tray

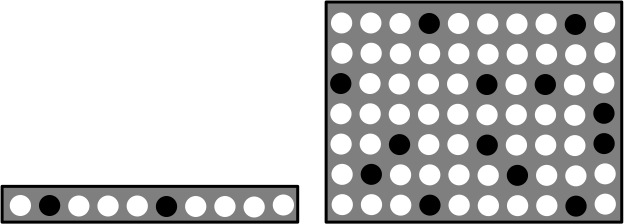
d. Slightly prefer the large tray

e. Moderately prefer the large tray

f. Strongly prefer the large tray

13. The Marble Game:

Assume that you are presented with two trays of black and white marbles (pictured below). The small tray contains **10** marbles. The large tray contains **70** marbles. The marbles inside each tray will be randomly mixed up, and you must draw out a single marble from one of the trays without looking. If you draw a black marble you win $5.



(2 black and 8 white) (13 black and 57 white)

In a real situation, which tray would you prefer to select a marble from?

\*a. Strongly prefer the small tray

\*b. Moderately prefer the small tray

\*c. Slightly prefer the small tray

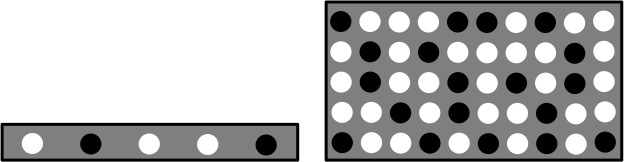
d. Slightly prefer the large tray

e. Moderately prefer the large tray

f. Strongly prefer the large tray

14. The Marble Game:

Assume that you are presented with two trays of black and white marbles (pictured below). The small tray contains **5** marbles. The large tray contains **50** marbles. The marbles inside each tray will be randomly mixed up, and you must draw out a single marble from one of the trays without looking. If you draw a black marble you win $5.



(2 black and 3 white) (19 black and 31 white)

In a real situation, which tray would you prefer to select a marble from?

\*a. Strongly prefer the small tray

\*b. Moderately prefer the small tray

\*c. Slightly prefer the small tray

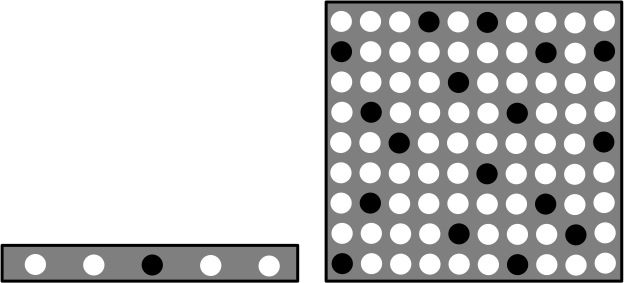
d. Slightly prefer the large tray

e. Moderately prefer the large tray

f. Strongly prefer the large tray

15. The Marble Game:

Assume that you are presented with two trays of black and white marbles (pictured below). The small tray contains **5** marbles. The large tray contains **90** marbles. The marbles inside each tray will be randomly mixed up, and you must draw out a single marble from one of the trays without looking. If you draw a black marble you win $5.



(1 black and 4 white) (17 black and 73 white)

In a real situation, which tray would you prefer to select a marble from?

\*a. Strongly prefer the small tray

\*b. Moderately prefer the small tray

\*c. Slightly prefer the small tray

d. Slightly prefer the large tray

e. Moderately prefer the large tray

f. Strongly prefer the large tray

Scoring Rules:

The three filler items (2, 6, 10) are not scored. Resulting in a 12-item subtest. The 12 items are scored:

\*a. Strongly prefer the small tray = 6

\*b. Moderately prefer the small tray = 5

\*c. Slightly prefer the small tray = 4

d. Slightly prefer the large tray = 3

e. Moderately prefer the large tray = 2

f. Strongly prefer the large tray = 1

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Item Number | Small Tray’s Marbles | | | | Large Tray’s Marbles | | | | Small - Large Tray  Difference % |
| Total | **Black** | **White** | Small % | Large Tray | **Black** | **White** | Large % |
| 1 | 10 | **1** | **9** | 10% | 100 | **8** | **92** | 8% | 2% |
| 2 | 10 | **2** | **8** | 20% | 100 | **30** | **70** | 30% | -10% |
| 3 | 5 | **1** | **4** | 20% | 100 | **19** | **81** | 19% | 1% |
| 4 | 20 | **1** | **19** | 5% | 100 | **4** | **96** | 4% | 1% |
| 5 | 10 | **2** | **8** | 20% | 80 | **15** | **65** | 19% | 1% |
| 6 | 10 | **1** | **9** | 10% | 100 | **25** | **75** | 25% | -15% |
| 7 | 15 | **3** | **12** | 20% | 100 | **18** | **82** | 18% | 2% |
| 8 | 10 | **2** | **8** | 20% | 100 | **19** | **81** | 19% | 1% |
| 9 | 15 | **1** | **14** | 7% | 90 | **4** | **86** | 4% | 3% |
| 10 | 15 | **2** | **13** | 13% | 80 | **20** | **60** | 25% | -12% |
| 11 | 8 | **1** | **7** | 13% | 100 | **12** | **88** | 12% | 1% |
| 12 | 5 | **1** | **4** | 20% | 80 | **15** | **65** | 19% | 1% |
| 13 | 10 | **2** | **8** | 20% | 70 | **13** | **57** | 19% | 1% |
| 14 | 5 | **2** | **3** | 40% | 50 | **19** | **31** | 38% | 2% |
| 15 | 5 | **1** | **4** | 20% | 90 | **17** | **73** | 19% | 1% |

**CART Scoring:**

The filler items, items number 2, 6, and 10 are not scored. The remaining items are scored as:

6 = Strongly prefer the small tray

5 = Moderately prefer the small tray

4 = Slightly prefer the small tray

3 = Slightly prefer the large tray

2 = Moderately prefer the large tray

1 = Strongly prefer the large tray

and then summed to form a composite score. CART scoring is then as follows:

Summed composite scores > 61 are scored as 5 points.

Summed composite scores > 55 and ≤ 61 are scored as 4 points.

Summed composite scores > 50 to ≤ 55 are scored as 3 points.

Summed composite scores > 45 and ≤ 50 are scored as 2 points.

Summed composite scores > 40 and ≤ 45 are scored as 1 point.

Summed composite scores of 40 or less are scored as 0 points.