Released Items

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NCEXTEND1
NC Math 1

Public Schools of North Carolina
Department of Public Instruction | State Board of Education
Division of Accountability Services/North Carolina Testing Program

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Item 1

Test Cards: Provided by NCDPI

- Stimulus: a scripted graphic presenting the weight of three goats
- Stem: "What is the mean weight of Caleb's goats?"
- A: 35 lb
- B: 40 lb
- C: 45 lb

*Objects/symbols may be substituted for the pictures if used routinely in the classroom. (Provided by the assessor)

Trial 1

- The assessor presents and reads the stimulus.
- The assessor says: **"Caleb owns 3 goats. The weights of the goats are 30 lb, 40 lb, and 50 lb."**
- The assessor presents and reads the stem.
- The assessor says: **"What is the mean weight of Caleb's goats?"**
- The assessor presents and reads the answer choices in the following order (*Choice A*, *Choice B*, *Choice C*).
- The assessor says: (A) **"35 lb"** (B) **"40 lb"** (C) **"45 lb"**
- The assessor says: **"What is the mean weight of Caleb's goats? Select an answer."**
- If the student answers correctly, the assessor presents the next item.
- If the student answers incorrectly, the assessor removes the incorrect answer and proceeds to trial 2.
- If the student does not respond, the assessor randomly removes one of the incorrect answers and proceeds to trial 2.

RELEASED

Trial 2
• The assessor presents and reads the stimulus. • The assessor says: **"Let's try again. Caleb owns 3 goats. The weights of the goats are 30 lb, 40 lb, and 50 lb."** • The assessor presents and reads the stem. • The assessor says: **"What is the mean weight of Caleb's goats?"** • The assessor presents the answer choices in the following order. *If A was removed* The assessor says: (B) **"40 lb"** (C) **"45 lb"** *If C was removed* The assessor says: (A) **"35 lb"** (B) **"40 lb"** • The assessor says: **"What is the mean weight of Caleb's goats? Select an answer."** • The assessor and student continue to the next item.

RELEASED

Item 2

Test Cards: Provided by NCDPI

- Stem: "What is the value of 12^2?"
- A: 12
- B: 24
- C: 144

*Objects/symbols may be substituted for the pictures if used routinely in the classroom. (Provided by the assessor)

Trial 1

- The assessor presents and reads the stem.
- The assessor says: **"What is the value of 12^2?"**
- The assessor presents and reads the answer choices in the following order (*Choice A*, *Choice B*, *Choice C*).
- The assessor says: (A) **"12"** (B) **"24"** (C) **"144"**
- The assessor says: **"What is the value of 12^2? Select an answer."**
- If the student answers correctly, the assessor presents the next item.
- If the student answers incorrectly, the assessor removes the incorrect answer and proceeds to trial 2.
- If the student does not respond, the assessor randomly removes one of the incorrect answers and proceeds to trial 2.

RELEASED

Trial 2
• The assessor presents and reads the stem. • The assessor says: **"Let's try again. What is the value of 12^2?"** • The assessor presents the answer choices in the following order. *If A was removed* The assessor says: (B) **"24"** (C) **"144"** *If B was removed* The assessor says: (A) **"12"** (C) **"144"** • The assessor says: **"What is the value of 12^2? Select an answer."** • The assessor and student continue to the next item.

RELEASED

Item 3

Test Cards: Provided by NCDPI

- Stimulus: a scripted graphic showing books being weighed on two scales
- Stem: "How much does the science book weigh?"
- A: 1.2 pounds
- B: 1.8 pounds
- C: 6.0 pounds

*Objects/symbols may be substituted for the pictures if used routinely in the classroom. (Provided by the assessor)

Trial 1

- The assessor presents and reads the stimulus.
- The assessor says: **"A math and a science book together weigh 3.6 pounds. The math book alone weighs 2.4 pounds."**
- The assessor presents and reads the stem.
- The assessor says: **"How much does the science book weigh?"**
- The assessor presents and reads the answer choices in the following order (*Choice A*, *Choice B*, *Choice C*).
- The assessor says: (A) **"1.2 pounds"** (B) **"1.8 pounds"** (C) **"6.0 pounds"**
- The assessor says: **"How much does the science book weigh? Select an answer."**
- If the student answers correctly, the assessor presents the next item.
- If the student answers incorrectly, the assessor removes the incorrect answer and proceeds to trial 2.
- If the student does not respond, the assessor randomly removes one of the incorrect answers and proceeds to trial 2.

RELEASED

Trial 2
• The assessor presents and reads the stimulus. • The assessor says: **"Let's try again. A math and a science book together weigh 3.6 pounds. The math book alone weighs 2.4 pounds."** • The assessor presents and reads the stem. • The assessor says: **"How much does the science book weigh?"** • The assessor presents the answer choices in the following order. *If B was removed* The assessor says: (A) **"1.2 pounds"** (C) **"6.0 pounds"** *If C was removed* The assessor says: (A) **"1.2 pounds"** (B) **"1.8 pounds"** • The assessor says: **"How much does the science book weigh? Select an answer."** • The assessor and student continue to the next item.

RELEASED

Item 4

Test Cards: Provided by NCDPI

- Stem: "What is the value of x in $3x + 4 + x = 20$?"
- A: 3
- B: 4
- C: 5

*Objects/symbols may be substituted for the pictures if used routinely in the classroom. (Provided by the assessor)

Trial 1

- The assessor presents and reads the stem.
- The assessor says: **"What is the value of x in $3x + 4 + x = 20$?"**
- The assessor presents and reads the answer choices in the following order (*Choice A*, *Choice B*, *Choice C*).
- The assessor says: (A) **"3"** (B) **"4"** (C) **"5"**
- The assessor says: **"What is the value of x in $3x + 4 + x = 20$? Select an answer."**
- If the student answers correctly, the assessor presents the next item.
- If the student answers incorrectly, the assessor removes the incorrect answer and proceeds to strial 2.
- If the student does not respond, the assessor randomly removes one of the incorrect answers and proceeds to trial 2.

RELEASED

Trial 2
• The assessor presents and reads the stem. • The assessor says: **"What is the value of *x* in 3*x* + 4 + *x* = 20?"** • The assessor presents the answer choices in the following order. *If A was removed* The assessor says: (B) **"4"** (C) **"5"** *If C was removed* The assessor says: (A) **"3"** (B) **"4"** • The assessor says: **"What is the value of *x* in 3*x* + 4 + *x* = 20? Select an answer."** • The assessor and student continue to the next item.

RELEASED

Item 5

Test Cards: Provided by NCDPI

- Stem: "What is the slope and y-intercept of the function $y = \frac{1}{4}x + 1$?"
- A: slope = 4, y-intercept = 1
- B: slope = 1, y-intercept = $\frac{1}{4}$
- C: slope = $\frac{1}{4}$, y-intercept = 1

*Objects/symbols may be substituted for the pictures if used routinely in the classroom. (Provided by the assessor)

Trial 1

- The assessor presents and reads the stem.
- The assessor says: **"What is the slope and *y*-intercept of the function $y = \frac{1}{4}x + 1$?"**
- The assessor presents and reads the answer choices in the following order (*Choice A*, *Choice B*, *Choice C*).
- The assessor says: (A) **"slope = 4, *y*-intercept = 1"** (B) **"slope = 1, *y*-intercept = $\frac{1}{4}$"** (C) **"slope = $\frac{1}{4}$, *y*-intercept = 1"**
- The assessor says: **"What is the slope and *y*-intercept of the function $y = \frac{1}{4}x + 1$? Select an answer."**
- If the student answers correctly, the assessor ends the presentation of the sample items.
- If the student answers incorrectly, the assessor removes the incorrect answer and proceeds to trial 2.
- If the student does not respond, the assessor randomly removes one of the incorrect answers and proceeds to trial 2.

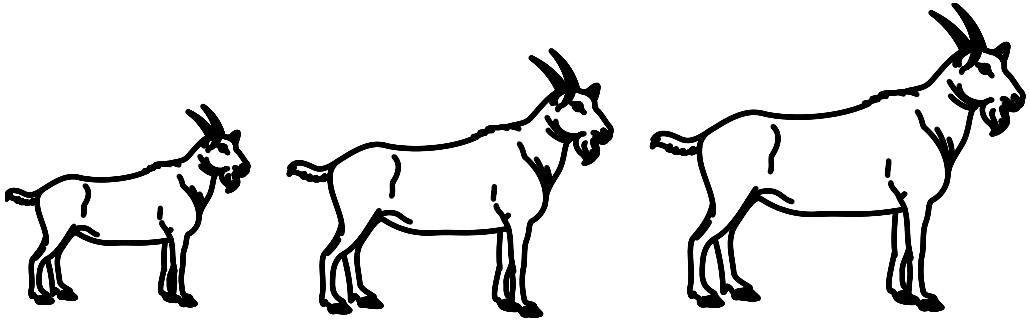
RELEASED

Trial 2
• The assessor presents and reads the stem. • The assessor says: **"What is the slope and *y*-intercept of the function $y = \frac{1}{4}x + 1$?** • The assessor presents the answer choices in the following order. *If A was removed* The assessor says: (B) **"slope = 1, *y*-intercept = $\frac{1}{4}$"** (C) **"slope = $\frac{1}{4}$, *y*-intercept = 1"** *If B was removed* The assessor says: (A) **"slope = 4, *y*-intercept = 1"** (C) **"slope = $\frac{1}{4}$, *y*-intercept = 1"** • The assessor says: **"What is the slope and *y*-intercept of the function $y = \frac{1}{4}x + 1$? Select an answer."** • The assessor ends the presentation of the sample items.

RELEASED

STOP

Caleb owns 3 goats. The weights of the goats are 30 lb, 40 lb, and 50 lb.



30 lb 40 lb 50 lb

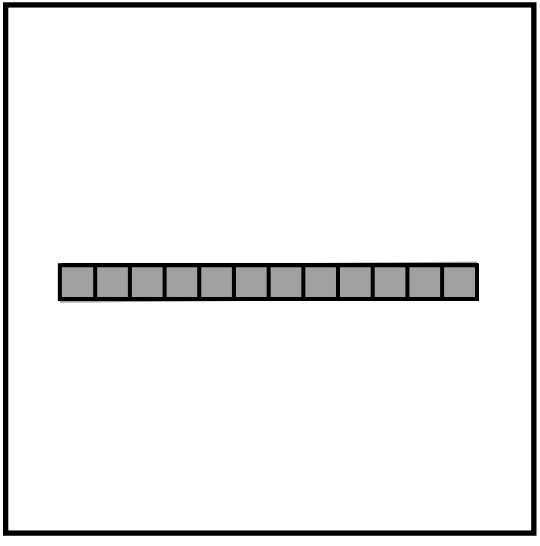
What is the mean weight of Caleb’s goats?

35 lb

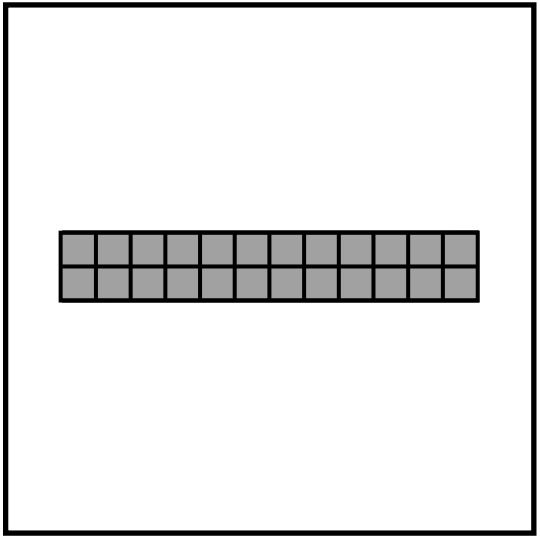
40 lb

45 lb

What is the value of 12^2?



12



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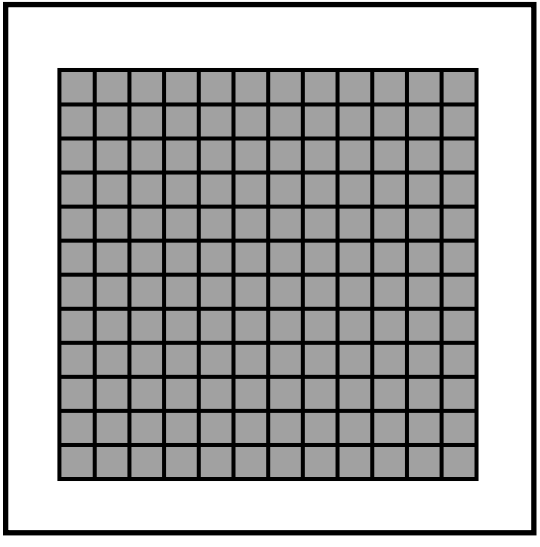
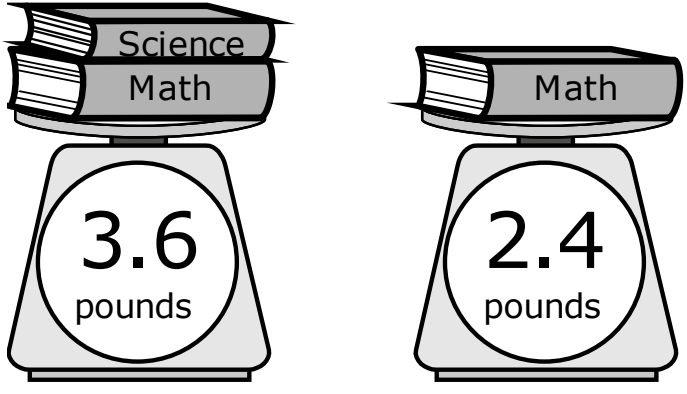
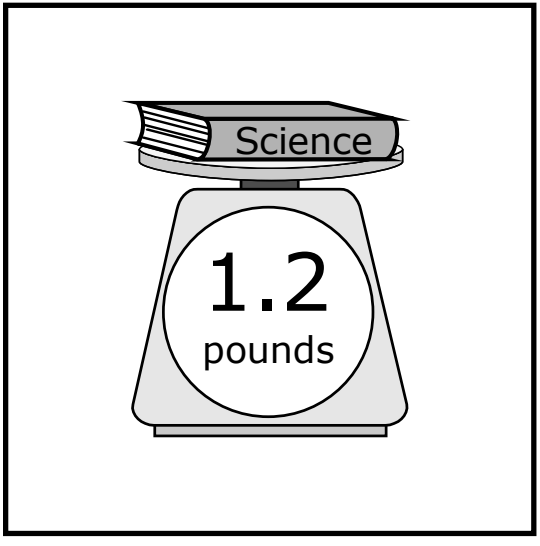


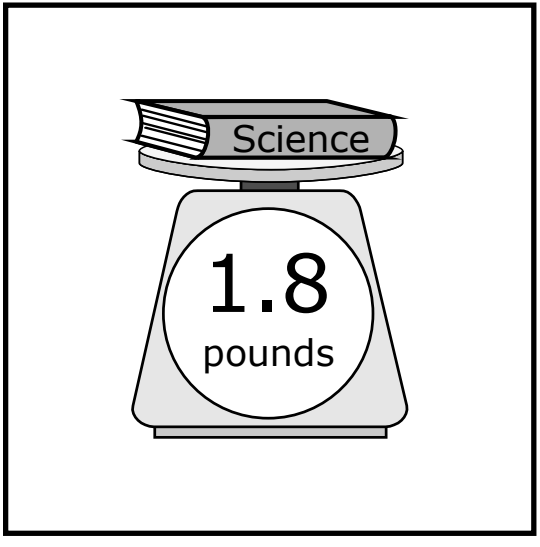
144

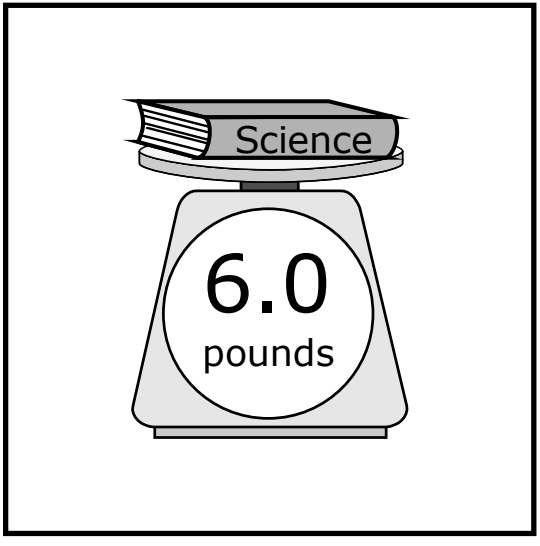
A math and science book together weigh 3.6 pounds. The math book alone weighs 2.4 pounds.



How much does the science book weigh?


Science
1.2
pounds


Science
1.8
pounds


Science
6.0
pounds

What is the value of x in $3x + 4 + x = 20$?

3

4

5

What is the slope and y-intercept of the function $y = \frac{1}{4}x + 1$?

slope = 4

y-intercept = 1

slope = 1

y-intercept = $\frac{1}{4}$

$$\text{slope} = \frac{1}{4}$$

$$y\text{-intercept} = 1$$